JVC

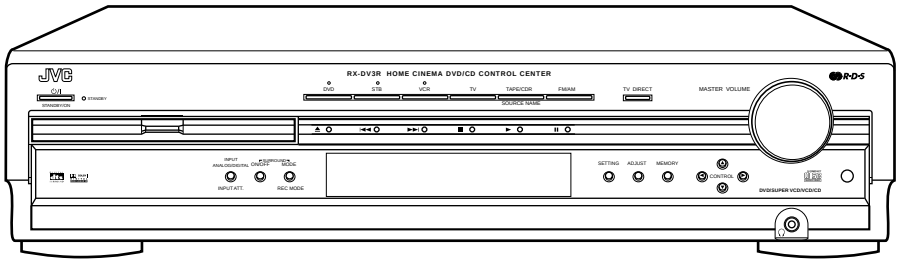
SERVICE MANUAL

HOME CINEMA DVD/CD CONTROL CENTER

RX-DV3RSL

Area suffix

B ---------- U.K.
E --- Continental Europe
EN----- Northern Europe



R·D·S

DVD VIDEO

COMPACT disc SUPER VIDEO

DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

Contents

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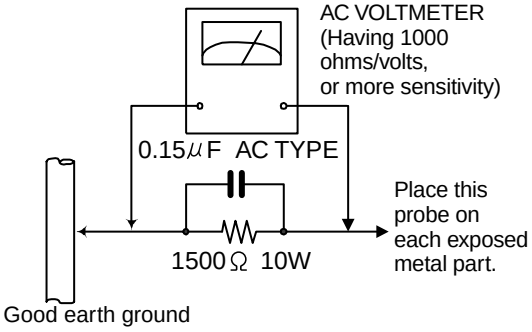
No.21154
Oct. 2002

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

Safety precautions (U.K only)

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee ; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

Warning

1. Service should be performed by qualified personnel only.
2. This equipment has been designed and manufactured to meet international safety standards.
3. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
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6. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Preventing static electricity

1. Grounding to prevent damage by static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

2. About the earth processing for the destruction prevention by static electricity

In the equipment which uses optical pick-up (laser diode), optical pick-up is destroyed by the static electricity of the work environment.

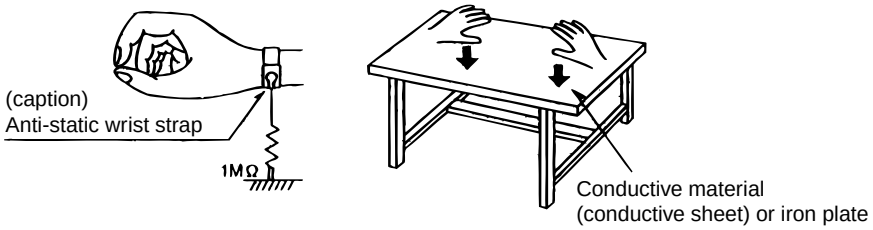
Be careful to use proper grounding in the area where repairs are being performed.

2-1 Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

2-2 Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)

2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

4. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

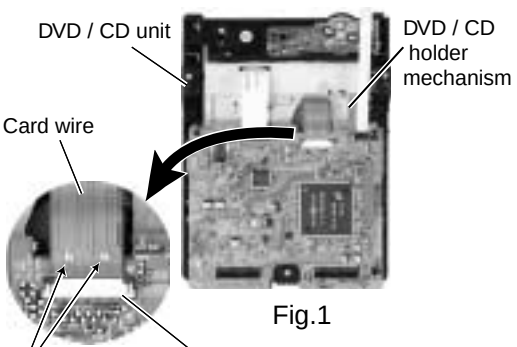
3. Handle the flexible cable carefully as it may break when subjected to strong force.

4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

Attention when traverse unit is decomposed

Because the DVD/ CD mechanism assembly of this model is a unit component, the individual component parts consisting of the DVD / CD mechanism assembly are not supplied separately.

If you need to decompose the traverse unit, solder the two soldering points on the flexible board respectively before removing the traverse unit.



Disassembly method

■Removing the top cover (See Fig.1)

1. Remove the four screws marked A attaching the top cover on both sides of the body.

2. Remove the three screws marked **B** on the back of the body.

3. Remove the top cover from behind in the direction of the arrow while pulling both sides outward.

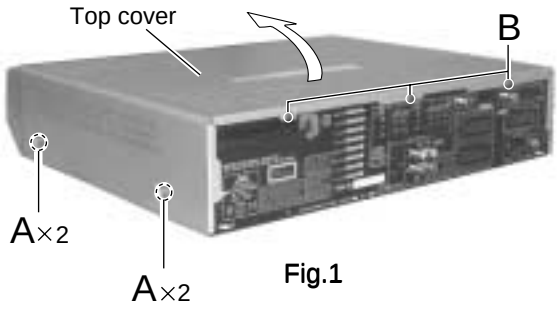


Fig.1

■Removing the front panel assembly (See Fig.2 to 4)

・ Prior to performing the following procedures, remove the top cover.

1. Disconnect the card wire from the connector CN114 on the main board.

2. Remove the five screws marked **C** attaching the front panel assembly on the bottom of the body. Detach the front panel assembly toward the front.

3. Release the two joints marked **a** on both sides on the bottom of the body using a screwdriver.

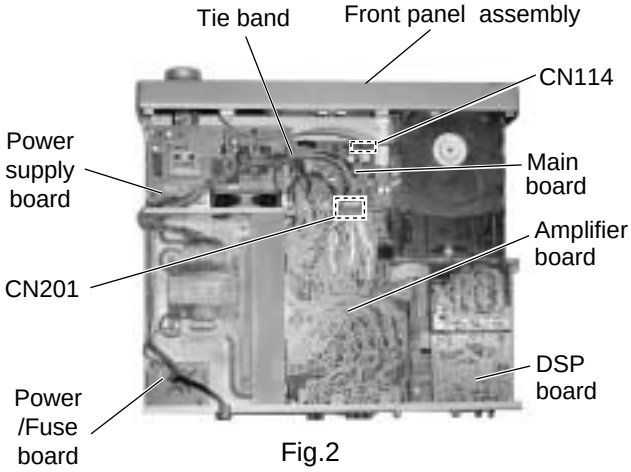


Fig.2

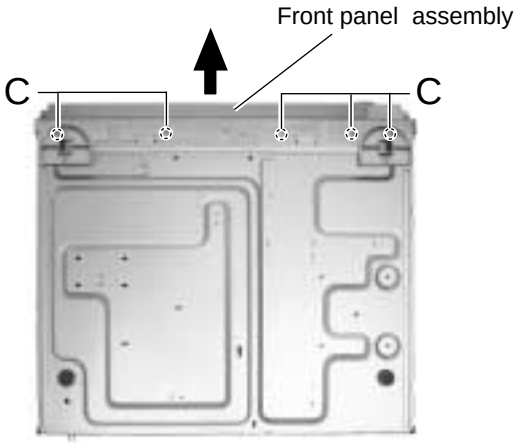


Fig.3

Fig.4

■Removing the rear panel (See Fig.5)

・ Prior to performing the following procedures, remove the top cover.

1. Remove the power cord stopper from the rear panel by moving it in the direction of the arrow.

2. Remove the eighteen screws marked **D** attaching each boards to the rear panel on the back of the body.

3. Remove the three screws marked **E** attaching the rear panel on the back of the body.

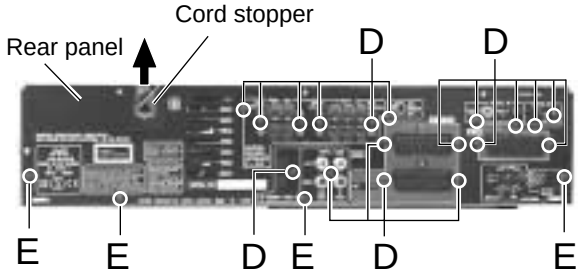


Fig.5

■Removing each board connected to the main board

(See Fig.6 to 10)

・Prior to performing the following procedures, remove the top cover and rear panel.

1. Cut off the tie band fixing the harness.
2. Disconnect the DSP board from the connector CN612 on the main board,
3. Disconnect the card wire from the connecter CN614 on the main board.
4. Disconnect the video select board from the connector CN412 on the main board.

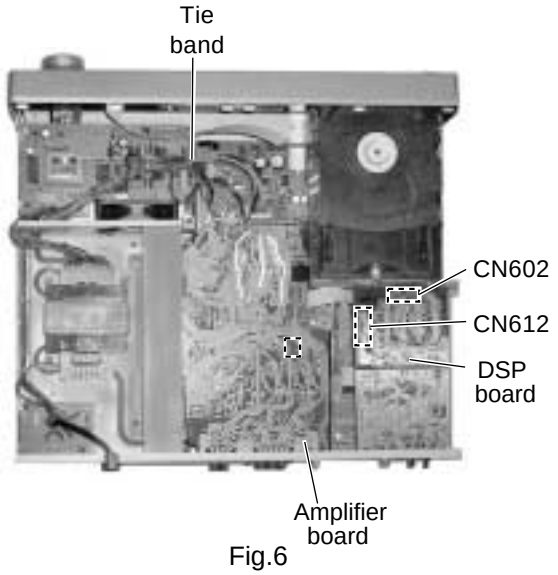


Fig.6

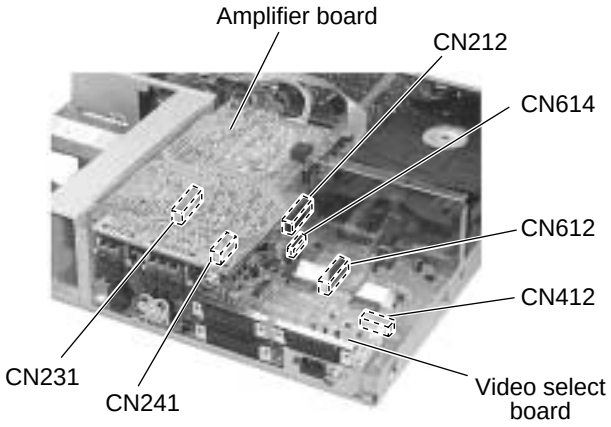


Fig.8

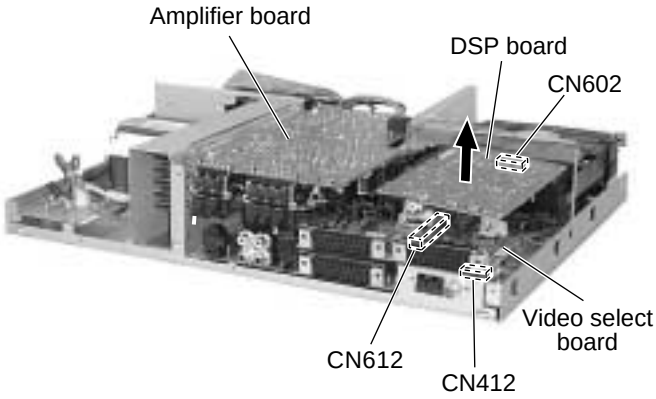


Fig.7

■Removing the tuner board

(See Fig.9)

・Prior to performing the following procedures, remove the top cover, rear panel, DSP board and video selector board.

1. Disconnect the card wire from the connector CN301 on the main board.
2. Remove the two screws marked **F** attaching the tuner board on the body.

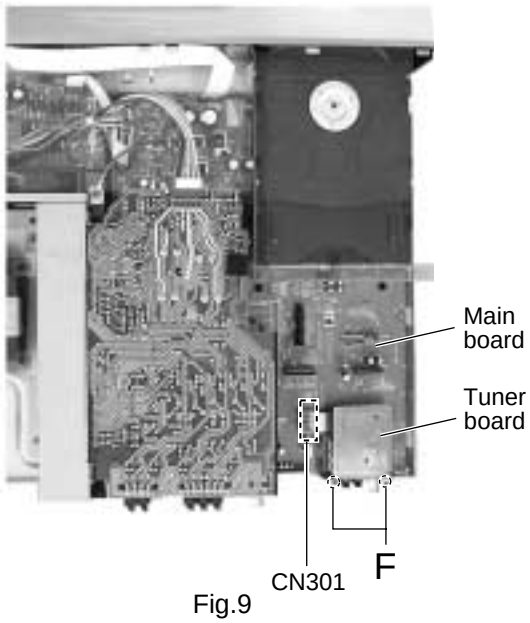


Fig.9

■Removing the amplifier board

(See Fig.10, 11)

・Prior to performing the following procedures, remove the top cover, and rear panel.

1. Disconnect the amplifier board from the connector CN201.
2. Disconnect the amplifier board from the connector CN212 on the main board.
3. Disconnect the amplifier board from the wire connected to the connector CN231 and CN241 on the main board.
4. Disconnect the screws marked **G** attaching the earth wire and the amplifier board on the fan bracket.
5. Disconnect the four screws **H** attaching the amplifier board on the body.

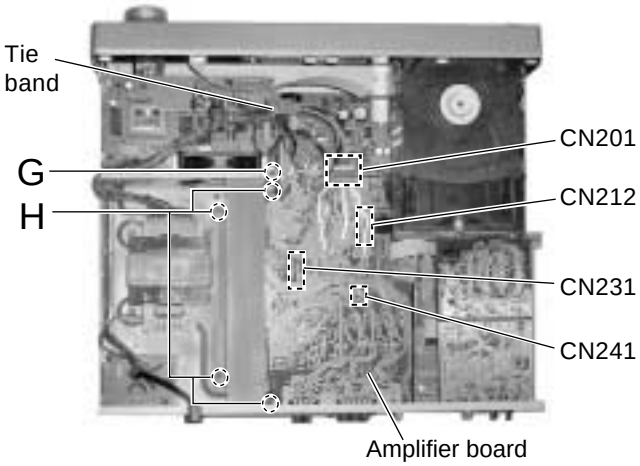


Fig.10

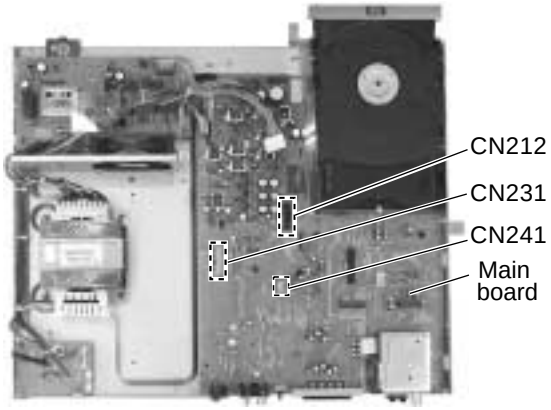


Fig.11

■Removing the power ICs

(See Fig.12, 13)

・Prior to performing the following procedures, remove the top cover , rear panel and amplifier.

1. Remove the six screws marked **I** attaching the POWER ICs.
2. Unsolder the two power ICs solder points attaching the rear side of the amplifier board.
3. Pull out the amplifier board from the bracket hooks on the heat sink.

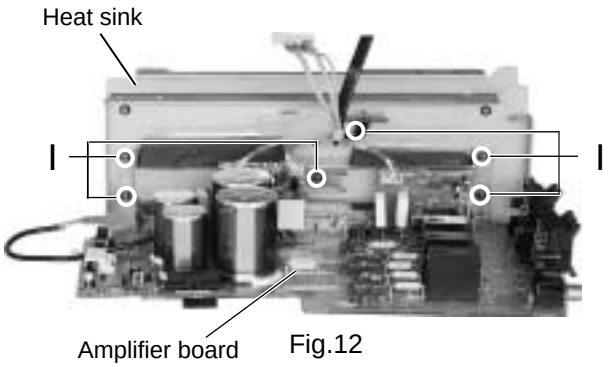


Fig.12

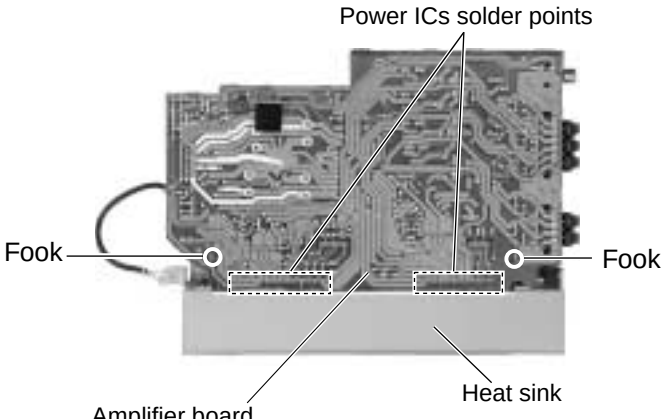


Fig.13

■ Removing the DVD / CD unit (See Fig.14)

- Prior to performing the following procedures, remove the top cover, rear cover and DSP board.

1. Pull up the two plastic rivet attaching the DVD / CD unit dust proof cover, then remove the DVD / CD unit dust proof cover.
2. Remove the DVD / CD unit dust proof cover attaching on the main board.
3. Remove the three screws marked **J** attaching the DVD / CD unit.
4. Remove the bracket marked **a** attaching on the DVD / CD unit.

   Disconnect the connectors CN512 and CN513 on

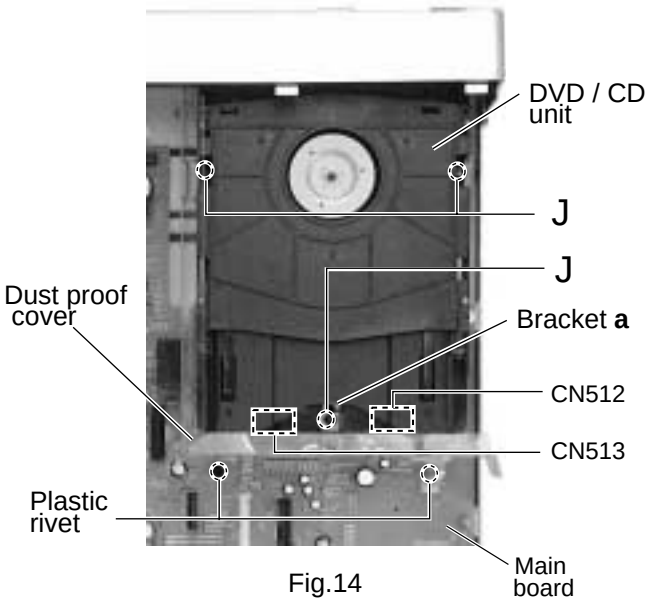


Fig.14

■ Removing the fan bracket (See Fig.15)

- Prior to performing the following procedures, remove the top cover, rear cover, video board, DSP board, amplifier board and S-video board.

1. If necessary, cut off the tie band fixing the harness.
2. Remove the two screws marked **K** attaching the fan bracket on the body.
3. Remove the harness bands fixing the harness on the fan bracket.
4. Disconnect the connector CN122 on the main board.

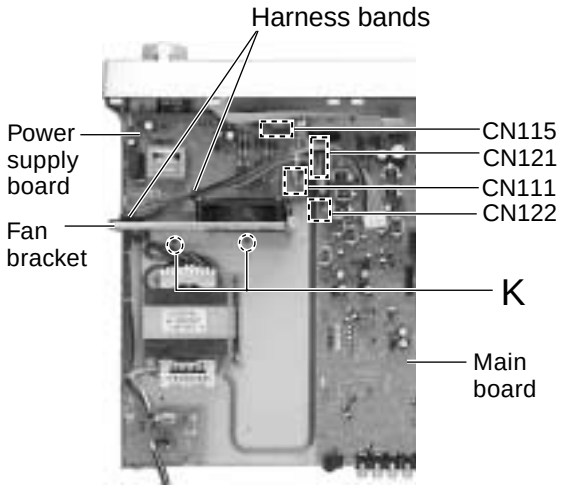


Fig.15

■ Removing the power supply board (See Fig.16)

- Prior to performing the following procedures, remove the top cover, rear cover, video board, DSP board, amplifier board, S-video board and fan bracket.

1. If necessary, cut off the tie band fixing the harness.
2. Disconnect the card wire from the connector CN115 on the power supply board.
3. Disconnect the harness connected to the connector CN111 on the power supply board.
4. Remove the four screws marked **L** attaching the power supply board on the body.
5. Unsolder the solder points at the three harnesses connected to the power supply board.

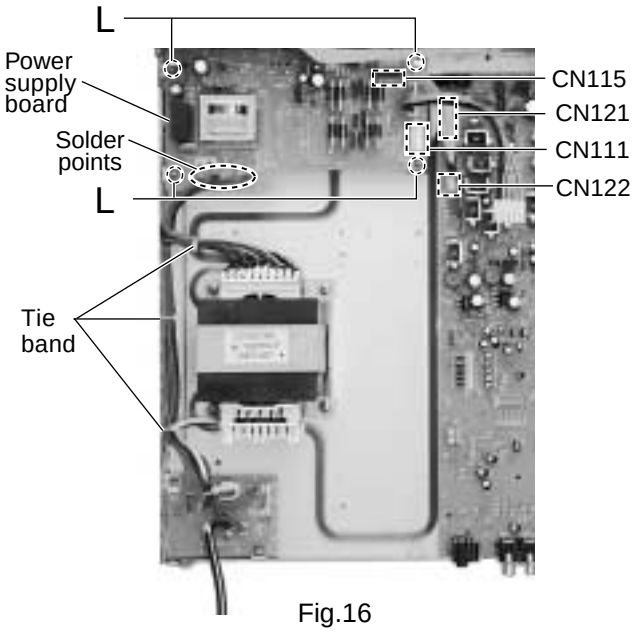


Fig.16

■Removing the power transformer (See Fig.17, 18)

- Prior to performing the following procedures, remove the top cover and rear panel.

1. If necessary, cut off the tie band fixing the harness.
2. Disconnect the harness from the connector CN101 on the power / fuse board.
3. Disconnect the harness from the connectors CN111 and CN121 on the power supply board and main board respectively.
4. Unsolder the three harnesses connected to the power supply board.
5. Remove the four screws marked **M** attaching the power transformer on the body.

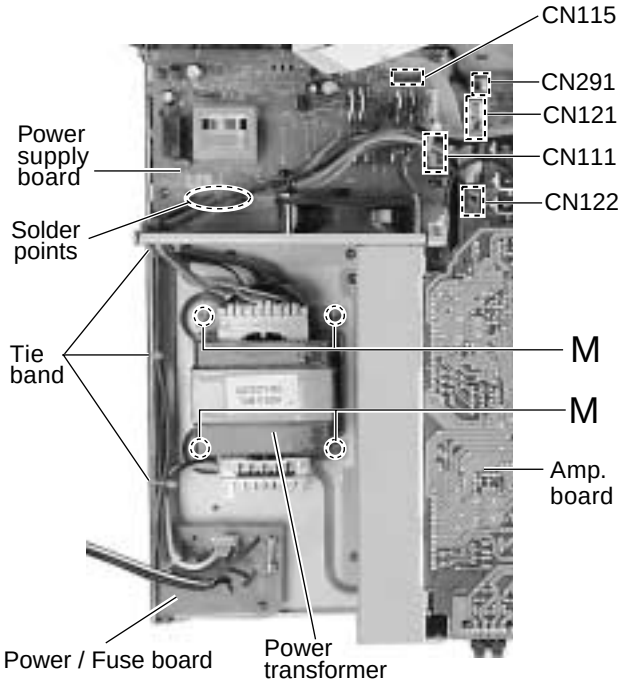


Fig.17

■Removing the power / fuse board (See Fig.18)

- Prior to performing the following procedure, remove the top cover and rear panel.

1. Disconnect the harness connected to the connector CN101 on the power / fuse board (If necessary, cut off the band fixing the harness on the side of the base chassis).
2. Unsolder the power cord and other harnesses connected to the power / fuse board.
3. Remove the two screws marked **N** attaching the power / fuse board on the body.

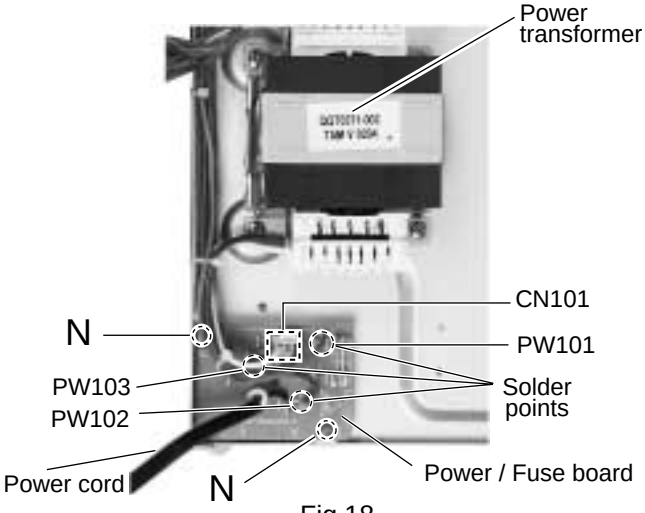


Fig.18

■Removing the headphone board (See Fig.19)

- Prior to performing the following procedures, remove the top cover, rear cover, front panel assembly and power supply board.

1. Disconnect the harness connected to the connector CN291 on the main board (If necessary, remove the amplifier board and fan bracket).
2. Remove the screw marked **O** attaching the headphone board on the body.

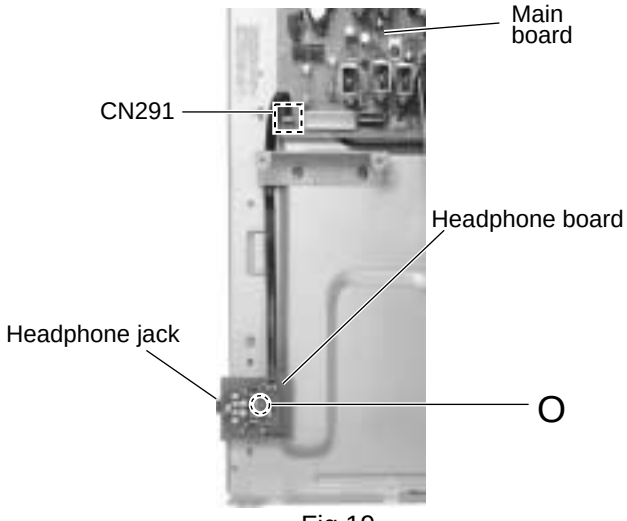


Fig.19

■Removing the main board

(See Fig.20)

- Prior to performing the following procedures, remove the top cover, rear panel, DSP board, video selector board, tuner board, and amplifier board, and DVD / CD unit.

1. Disconnect the card wire from the connectors CN114 CN125 on the main board.
2. Disconnect the wire from the connectors CN121, CN122 and CN291 on the main board.
3. Remove the five screws marked **P** attaching the main board on the body.

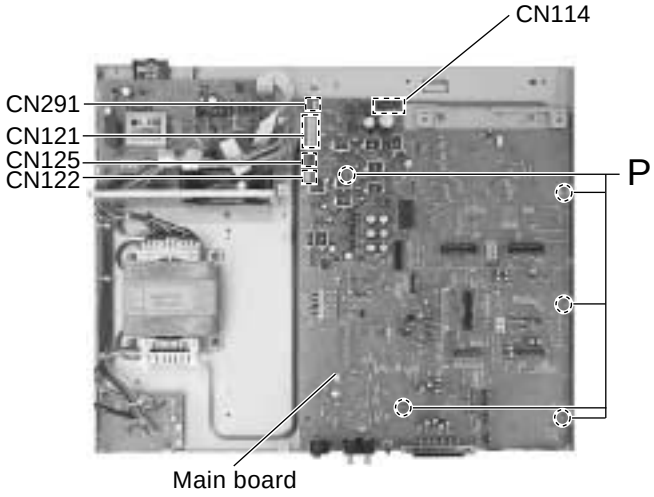


Fig.20

■Removing each board attaching to the rear side of the front panel

(See Fig.21)

- Prior to performing the following procedures, remove the top cover and front panel assembly.

1. Remove the two screws marked **Q** attaching the power switch board.
2. Remove the eight screws marked **R** attaching the system control board.
3. Remove the two screws marked **S** attaching the lens cover.
4. Pull out the lens and the indicator board.
5. Remove the two screws marked **T** attaching the select board.
6. Remove the three screws marked **U** attaching the control board.

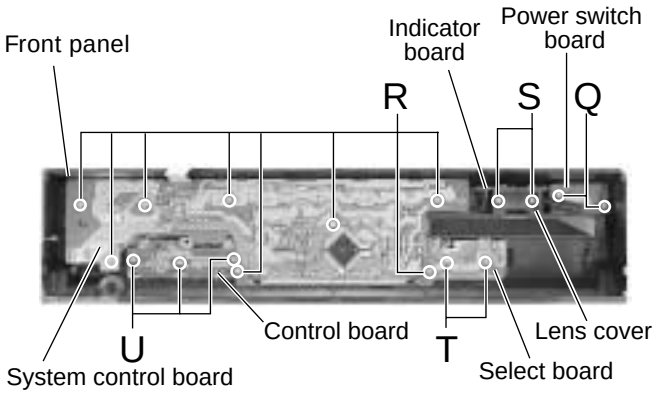


Fig.21

<DVD / CD unit>

・ Prior to performing the following procedures, remove the DVD / CD unit.

■Removing the DVD / CD tray (See Fig.1, 2)

1. Push the cam lever toward the center side of the DVD / CD unit in the direction of the arrow and draw the DVD / CD tray toward the front.

2. Push the two tray stoppers marked **a** on the DVD / CD tray in the direction of the arrow and draw the DVD / CD tray toward the front.

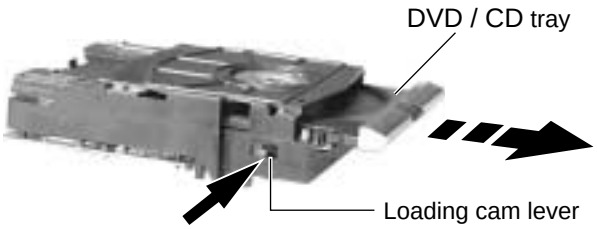


Fig.1

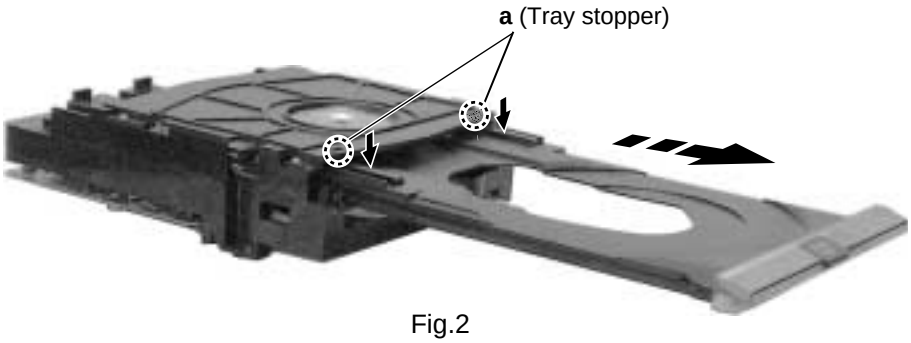


Fig.2

■Reinstall the DVD / CD tray (See Fig. 1, 2)

1. Align the rail with the DVD / CD tray as shown fig.2, then mount the DVD / CD tray.

■Removing the DVD / CD servo board (See Fig.3)

1. Disconnect the card wire from the connectors CN101, CN201 and CN202 on the DVD / CD servo board.

2. Push the two DVD / CD servo board hooks marked **b** and pull out the DVD / CD servo board.

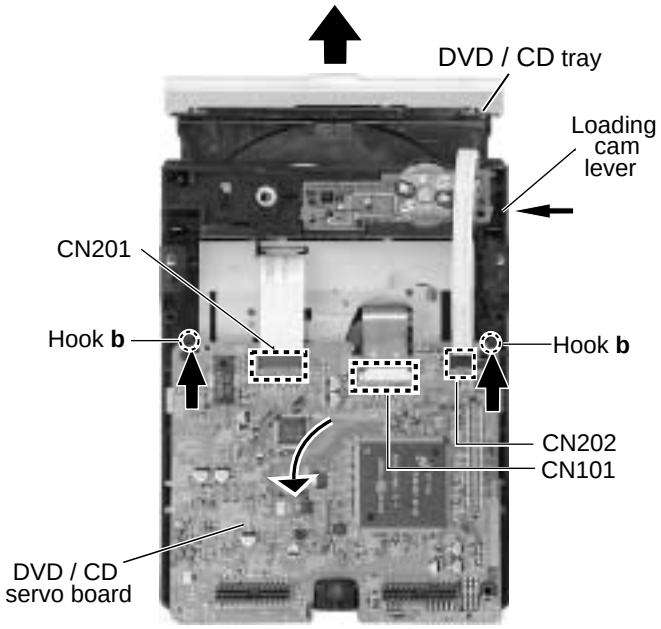


Fig.3

■Removing the the top cover

(See Fig.4)

- Prior to performing the following procedures, remove the DVD / CD tray.

1. Remove the four screws marked **A** attaching the top cover on the DVD / CD unit.
2. Pull the top cover toward the direction of the arrow and draw the top cover toward the upper side.

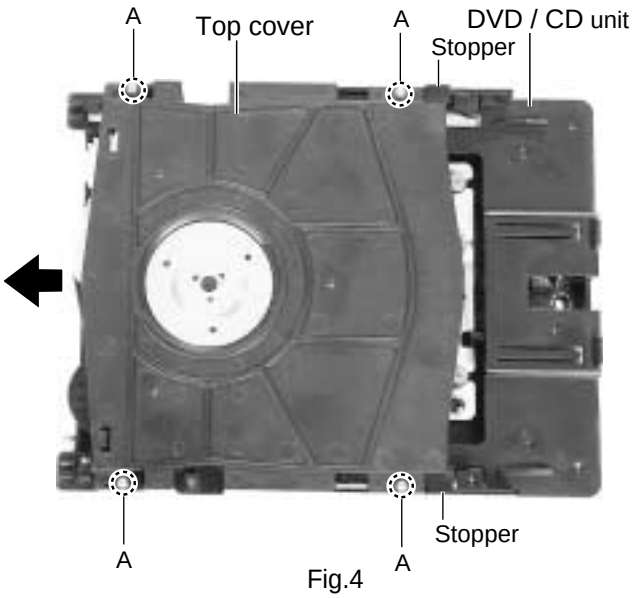


Fig.4

■Removing the tray drive motor board

(See Fig.5, 6)

- Prior to performing the following procedures, remove the DVD / CD tray, top cover, servo board and DVD / CD unit.

1. Unsolder the solder points at the tray drive motor board.
2. Detach the belt from the pulley on the bottom of the DVD / CD unit. (Do not stain the belt with grease).
3. Remove the screws marked **B** attaching the tray drive motor on the DVD / CD unit.
4. Remove the screws marked **C** attaching the tray drive motor board on the DVD / CD unit.

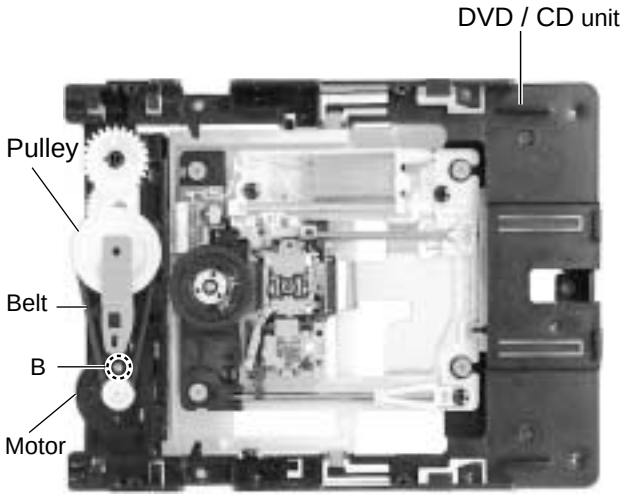


Fig.5

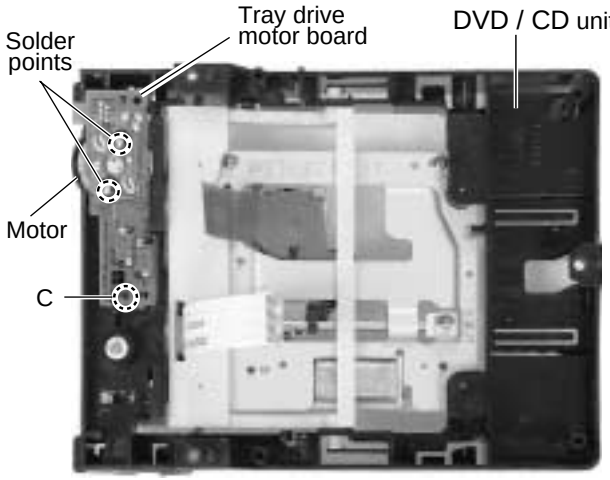


Fig.6

■Removing the DVD / CD the mechanism holder assembly (mechanism included) (See Fig. 7, 8)

- Prior to performing the following procedures, remove the DVD / CD tray, the servo board and top cover.

1. Remove the four screws marked **D** attaching the DVD / CD mechanism holder assembly on the DVD / CD unit.

2. Pull out the DVD / CD mechanism holder assembly.

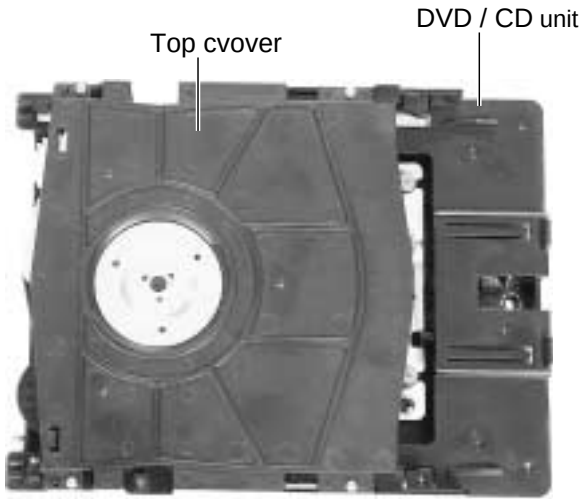


Fig.7

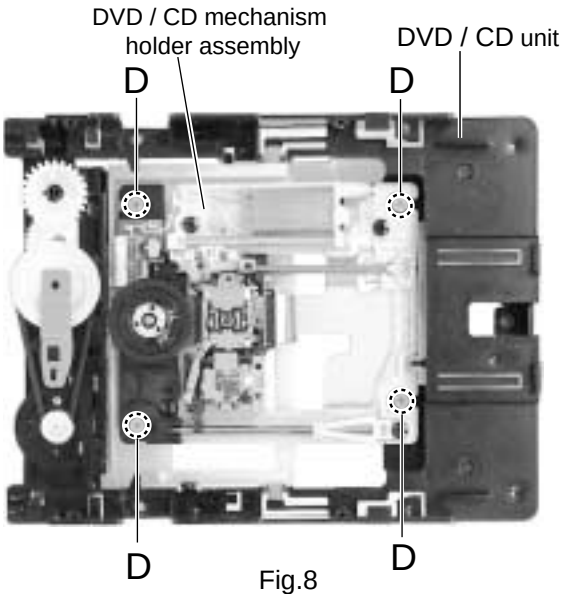


Fig.8

Adjustment method

Measurement instruments required for adjustment

1. Low frequency oscillator,
   This oscillator should have a capacity to output 0dBs to 600ohm at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600ohm
3. Electronic voltmeter
4. Frequency counter
5. Wow flutter meter
6. Test tape
   VT712 : For Tape speed and wow flutter (3kHz)
   VT724 : For Reference level (1kHz)
   VT703L : For Head angle (10kHz)

   Because of frequency-mixed tape with 63,1k,10k and 14kHz(250nWb/m -24dB).
   Use this tape together with a filter.
7. Blank tape
   TAPE : AC-225
8. Torque gauge : For play and back tension
   Forward ; TW2111A, Reverse ; TW2121A
   Fast Forward and Rewind ; TW2231A
9. Test disc
   : VT-501(12cm)
10. Jitter meter

Measurement conditions

Power supply voltage
AC120V(50Hz)

Measurement
output terminal : Speaker out
:TP101 (Measuring for TUNER/DECK/CD)
:Dummy load 6ohm

Radio input signal
AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 400Hz
Frequency displacement : 22.5kHz

Frequency Range
AM 530kHz~1600kHz (10kHz step)
FM 87.5MHz~108MHz

Standard measurement positions of volume and switch
Power : Standby (Light STANDBY Indicator)
Sub woofer VOL. : Minimum
Sound mode : OFF
Main VOL. : 0 Minimum
Traverse mecha set position : Disc 1
Mic MIX VOL : MAX
ECHO : OFF

Precautions for measurement
1. Apply 30pF and 33kohm to the IF sweeper output side and 0.082μF and 100kohm in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

■ Initialization method of DVD section

When microprocessor ICs or pick-up has been replaces, initialize the DVD player in the following manner.

1. If tray is not completely close up, make power to standby from on to close up the tray.
   After confirming that tray is completely close up, pull off the power plug.

2. Insert the power plug to the outlet while pressing "STOP" and "DVD" Button at the same time to be TEST Mode.
   FL display indicates "TEST **" and "** (Area code)" is indicated at the upper left of the display.

   ** : Area code

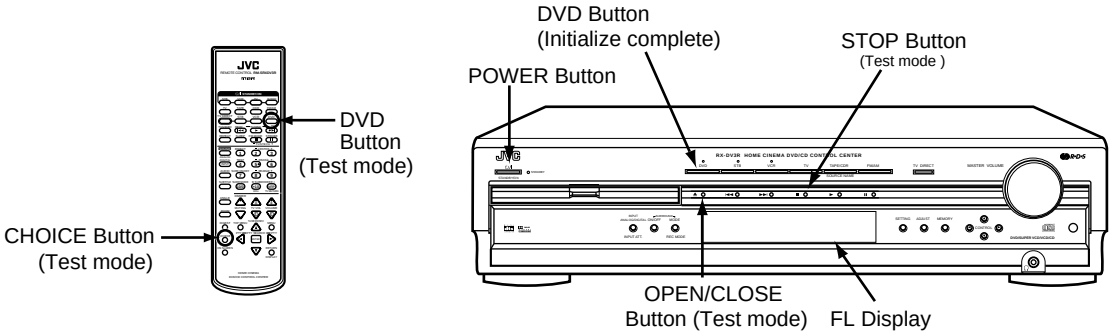
3. Press "PAUSE" button to initialize.
   When an indication of "ATT" is displayed, initialization finishes.

4. Push the POWER SW to be standby.

■ About TEST MODE

Before implementing the TEST Mode please do the change to the mode of remote control the DVD Mode.
The operation of the remote control is because it is not produced

This player has a TEST MODE for product QC, service or repair. Contents are given as follows.
TEST MODE has the 4 different states. These are changed with the CHOICE key on the remote controller. TEST MODE is canceled by the POWER key.
Insert the power plug to the outlet while pressing "STOP" and "DVD" buttons at the same time.
" (Area code)" is indicated at the upper left of the display.**
FL Display indicates " TEST ** ".



1. The first: FL display shows the player firmware version.

   Contents: [System firm] [Front End firm] [Back End firm]

2. The second: Indicator check mode. All FL segment and all LED light.

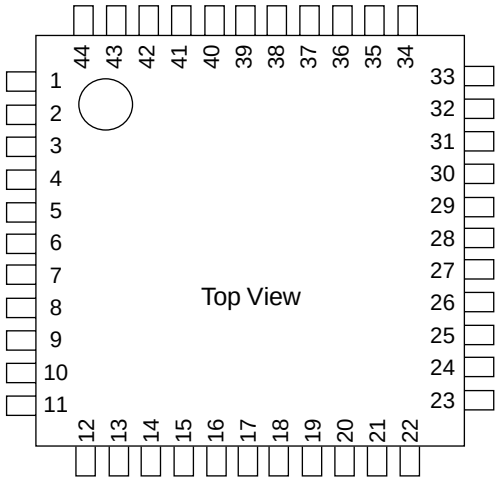
3. The third: Mechanism check mode. In this mode the player displays "CHECK".

4. The fourth: Front-end check mode. In this mode the FL displays "EXPERT".

Description of major ICs

■ AK4527BVQP (IC601) : A/D,D/A converter

1. Pin layout



2. Pin function (1/2)

No.	Symbol	I/O	Function
1	SDOS	I	SDTO Source Select Pin (Note 1) "L" : Internal ADC output, "H" : DAUX input
2	OSKS	I	Control Mode Select Pin "L" : 3-wire Serial, "H" : I2C Bus
3	MIS	-	Soft Mute Pin (Note 1), Connect to GND When this pin goes to "H", soft mute cycle is initialized. When returning to "L", the output mute releases.
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I/O	Input Channel Clock Pin
6	SDTI1	I	DAC1 Audio Serial Data Input Pin
7	SDTI2	I	DAC2 Audio Serial Data Input Pin
8	SDTI3	I	DAC3 Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	D,AUX	-	Sub Audio Serial Data Input Pin, Connect to GND
11	DFS	-	Double Speed Sampling Mode Pin (Note 1) "L" : Normal Speed, "H" : Double Speed
12	DEMI	-	Connect to GND No internal bonding.
13	DEMO	- - -	Zero Input Detect Enable Pin, Connect to GND "L" : mode 7 (disable) at parallel mode, zero detect mode is selectable by DZFM2-0 bits at serial mode. "H" : mode 0 (DZF is AND of all six channels)
14	MCKO	-	Output Buffer Power supply Pin, 2.7V~5.5V
15	DVDD	I	Digital Power Supply Pin, 4.5V~5.5V
16	DVSS	-	De-emphasis Pin, 0V
17	$\overline{PD}$	I	Power-Down & Reset Pin When "L", the AK4527B is powered-down and the control registers are reset to default state. If the state of P/S or CAD0-1 changes, then the AK4527B must be reset by PDN.
18	XTS	-	Test Pin, Connect to GND This pin should be connected to DVSS.

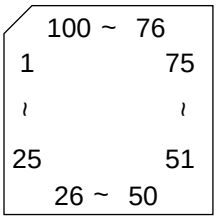
Pin function (2/2) AK4527

No.	Symbol	I/O	Function
19	ICKS	-	Connect to GND No internal bonding.
20	ADIF	-	Analog Input Format Select Pin, Digital Power Supply "H" : Full-differential input, "L" : Single-ended input
21	CAD1	-	Chip Address 1 Pin, Connect to GND
22	CAD0	-	Chip Address 0 Pin, Connect to GND
23	LOUT3	O	DAC3 Lch Analog Output Pin
24	ROUT3	O	DAC3 Rch Analog Output Pin
25	LOUT2	O	DAC2 Lch Analog Output Pin
26	ROUT2	O	DAC2 Rch Analog Output Pin
27	LOUT1	O	DAC1 Lch Analog Output Pin
28	ROUT1	O	DAC1 Rch Analog Output Pin
29	LIN-	I	Lch Analog Negative Input Pin
30	LIN+	I	Lch Analog Positive Input Pin
31	RIN-	I	Rch Analog Negative Input Pin
32	RIN+	I	Rch Analog Positive Input Pin
33	VREFL	-	Zero Input Detect 2 Pin (Note 2), Non Connect When the input data of the group 1 follow total 8192LRCK cycles with "0" input data, this pin goes to "H".
	OVF	O	Analog Input Overflow Detect Pin (Note 3) This pin goes to "H" if the analog input of Lch or Rch is overflows.
34	VCOM	O	Common Voltage Output Pin,AVDD/2 Large external capacitor around 2.2uF is used to reduce power-supply noise.
35	VREFH	-	Positive Voltage Reference Input Pin,AVDD
36	AVDD	-	Analog Power Supply Pin,4.5V~5.5V
37	AVSS	-	Analog Ground Pin,0V
38	XTI	-	Zero Input Detect 1 Pin (Note 2), Non connect When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H".
39	XTO	I	Master Clock Input Pin
40	P1S	-	Parallel / Serial Select Pin "L" : Serial control mode, "H" : Parallel control mode
41	$\overline{CS}$	I	Audio Data Interface Format 0 Pin in parallel mode
	CSN	I	Chip select pin in 3-wire serial control mode This pin should be connected to DVDD at I2C bus control mode
42	DIF1	I	Audio Data Interface Format 1 Pin in parallel mode
	SCL/CCLK	I	Control Data Clock Pin in serial control mode I2C = "L" : CCLK(3-wire Serial), I2C = "H" : SCL(I2CBus)
43	LOOP0	I	Loopback Mode 0 Pin in parallel control mode Enables digital loop-back from ADC to 3 DACs.
	SAD/CDTI	I/O	Control Data Input Pin in serial control mode I2C = "L" : CDTI(3-wire Serial), I2C = "H" : SDA(I2CBus)
44	CDTD	I	Loopback Mode 1 Pin (Note 1) Enable all 3 DAC channels to be input from SDTII.

Notes : 1. SDOS, SMUTE, DFS, and LOOP1 pins are ORed with register data if P/S = "L".
2. The group 1 and 2 can be selected by DZFM2-0 bit if P/S = "L" and DZFME = "L".
3. This pin becomes OVF pin if OVFE bit is set to "1" at serial control mode.
4. All input pins should not be left floating.

■ MN101C35DKF (IC701) : Panel MICOM

1. Pin layout



2. Pin function

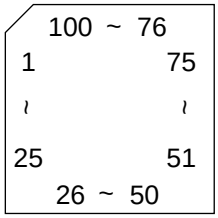
Pin No.	Symbol	I/O	Function
1	TXD/SBO0/P00	O	No connect
2	RXO/SBI0/P01	O	No connect
3	SBT0/P02	O	No connect
4	SBO1/P03	O	No connect
5	SBI1/P04	O	No connect
6	SBT1/P05	O	No connect
7	BUZZER/P06	O	No connect
8	VDD	-	Power supply
9	OSC2	O	External terminal for main clock
10	OSC1	I	External terminal for main clock
11	VSS	-	Connect to GND
12	XI	-	Connect to GND
13	XO	O	No connect
14	MMOD	-	Connect to GND
15	VREF-	-	Connect to GND
16	KEY1	I	Key input terminal 1
17	KEY2	I	Key input terminal 2
18	KEY3	I	Key input terminal 3
19	KEY4	I	Key input terminal 4
20	KEY5	I	Key input terminal 5
21	KEY6	I	Key input terminal 6
22	VERSION1	I	Chip select 1
23	VERSION2	I	Chip select 2
24	VREF+	-	Reference voltage terminal
25	LED DIMMER	O	LED DIMER
26	RESET	I	Reset input
27	LED BLUE	O	LDE (BLUE)
28	LED VCR	O	LED (VCR)
29	LED STB	O	LED (STB)
30	LED AUDIO	O	LED (DVD audio)
31	LED DVD	O	LED (DVD)
32	DI BUSY	O	Micom communication BUSY
33	DI CS	I	Micom communication CS
34	REMO	I	Remote control signal input
35	VOL IN1	I	VOL JOG IN1
36	VOL IN2	I	VOL JOG IN2
37	IRQ4	O	No connect
38	P25	O	No connect
39	DI PS2	O	Micom communication status output
40	DI S2P	I	Micom communication status input
41	DI CK	I	Micom communication CLK
42		O	No connect
43		O	No connect

MN101C35DKF

Pin No	Symbol	I/O	Function
44	P52	O	No connect
45	P53	O	No connect
46	P54	O	No connect
47	DGT17/P67	O	No connect
48	DGT16/P66	O	No connect
49	DGT15/P65	O	No connect
50	DGT14/P64	O	No connect
51	DGT13/P63	O	GRID1
52	DGT12/P62	O	GRID2
53	DGT11/P61	O	GRID3
54	DGT10/P60	O	GRID4
55	DGT9/P41	O	GRID5
56	DGT8/P40	O	GRID6
57	SEG0/DGT7/P77	O	GRID7
58	SEG1/DGT6/P76	O	GRID8
59	SEG2/DGT5/P75	O	GRID9
60	SEG3/DGT4/P74	O	GRID10
61	SEG4/DGT3/P73	O	GRID11
62	SEG5/DGT2/P72	O	GRID12
63	SEG6/DGT1/P71	O	GRID13
64	SEG7/DGT0/P70	O	SEGMENT36
65	SEG8/P87	O	SEGMENT35
66	SEG9/P86	O	SEGMENT34
67	SEG10/P85	O	SEGMENT33
68	SEG11/P84	O	SEGMENT32
69	SEG12/P83	O	SEGMENT31
70	SEG13/P82	O	SEGMENT30
71	SEG14/P81	O	SEGMENT29
72	SEG15/P80	O	SEGMENT28
73	SEG16/P97	O	SEGMENT27
74	SEG17/P96	O	SEGMENT26
75	SEG18/P95	O	SEGMENT25
76	SEG19/P94	O	SEGMENT24
77	SEG20/P93	O	SEGMENT23
78	SEG21/P92	O	SEGMENT22
79	SEG22/P91	O	SEGMENT21
80	SEG23/P90	O	SEGMENT20
81	SEG24/PC2	O	SEGMENT19
82	SEG25/PC1	O	SEGMENT18
83	SEG26/PC0	O	SEGMENT17
84	SEG27/PB7	O	SEGMENT16
85	SEG28/PB6	O	SEGMENT15
86	SEG29/PB5	O	SEGMENT14
87	SEG30/PB4	O	SEGMENT13
88	SEG31/PB3	O	SEGMENT12
89	SEG32/PB2	O	SEGMENT11
90	SEG33/PB1	O	SEGMENT10
91	SEG34/PB0	O	SEGMENT9
92	SEG35/PD7	O	SEGMENT8
93	SEG36/PD6	O	SEGMENT7
94	SEG37/PD5	O	SEGMENT6
95	SEG38/PD4	O	SEGMENT5
96	SEG39/PD3	O	SEGMENT4
97	SEG40/PD2	O	SEGMENT3
98	SEG41/PD1	O	SEGMENT2
99	SEG42/PD0	O	SEGMENT1
100	VPP	-	VPP

■ MN101C49GKG (IC761) : System MICOM

1. Pin layout



2. Pin function

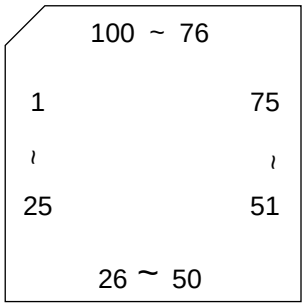
Pin No.	Symbol	I/O	Function
1	VREF	-	Connect to GND
2	PA0	I	NTSTEL(RGBESL)
3	PA1	I	VCR S/C SW
4	PA2	I	DBS S/C SW
5	PA3	I	SAFETY
6	PA4	I	SHORT&TH DET (A/D)
7	PA5	I	OUTLEVEL DETECT (A/D)
8	PA6	I	VCR IN (A/D)
9	PA7	I	STB IN (A/D)
10	VREF+	-	Reference voltage
11	VDD	-	VDD
12	OSC2	O	External terminal for connected oscillator
13	OSC1	I	External terminal for connected oscillator
14	VSS	-	Connect to GND
15	XI	I	Connect to GND
16	XO	O	No connect
17	MMO0	I	Connect to GND
18	SBO0	O	DI DO
19	SBI0	I	DI DI
20	SBT0	O	DI CK
21	SBO2	O	S2UDT
22	SBI2	I	U2SDT
23	SBT2	I	SCLK
24	NDK	O	INTP
25	SYSCLK	O	CPURST
26	IRQ0	I	CS
27	IRQ1	I	
28	IRQ2	I	PROTECT
29	IRQ3	I	RDS SET
30	IRQ4	I	DI BUSY
31	IRQ5	I	HAEADPHONE
32	GND	I	Connect to GND
33	NSRT	I	RESET IN
34	TM0IO	O	DSP RST
35	TM1IO	O	DSP RDY
36	TM2IO	O	AVC OUT
37	TM3IO	I	AVC IN
38	TM7IO	O	VIDEO MUTE1
39	P15	O	VIDEO MUTE2
40	TM4IO	O	VIDEO YCMIX
41	P17	O	VIDEO RGB
42	SBO1	O	DSP COM
43	SBI1	I	DSP STAT

MN101C49GKG

Pin No.	Symbol	I/O	Function
44	SBT1	O	DSP CLK
45	CBO3	O	VOL DATA
46	SBI3	O	VOL LATCH
47	SBT3	O	VOL CLK
48	MP3	O	D.O.MUTE
49	INT/PROG	O	INT/PROG
50	KEY0	O	HEADPHONE RELAY
51	KEY1	O	EEDO
52	KEY2	O	EEDI
53	KEY3	O	EECK
54	KEY4	O	EECS
55	KEY5	O	FRONT SPK RELAY
56	KEY6	O	CENTER SPK RELAY
57	KEY7	O	REAR SPK RELAY
58	NEW	O	S1RELAY
59	NRE	I	INH
60	NCS	O	SLOW L
61	A16	O	SLOW M
62	A17	O	SYSTEM P.ON
63	A0	O	FAN ON/OFF
64	A1	O	DVD P.ON
65	A2	O	TUNER P.ON
66	A3	O	MECHA.ON
67	A4	I/O	RDS DATA
68	A5	O	RDS CLK
69	A6	O	STEREO
70	A7	I	TUNER DATAI
71	A8	O	TUNER MUTE
72	A9	O	TUNER DATA0
73	A10	O	TUNER CLK
74	A11	O	TUNER CE
75	A12	O	S1OUT
76	A13	O	SMUTE
77	A14	O	DSP ON
78	A15	O	VS3
79	LED0	O	STBY LED
80	LED1	O	FAN ON/OFF1-LOW
81	LED2	O	FAN ON/OFF2-MID
82	LED3	O	DISC SET
83	LED4	I	DISC STOP
84	LED5	O	FAN ON/OFF3-HIGH
85	LED6	O	No connect
86	LED7	O	SW MUTE
87	SDO0	O	VIDEO SW1
88	SDO1	O	VIDEO SW2
89	SDO2	O	VIDEO SW3
90	SDO3	O	VIDEO SW4
91	SDO4	O	DI RST
92	SDO5	O	DI CS
93	SDO6	O	No connect
94	SDO7	O	LMUTE
95	DAVSS	-	SW OPEN
96	DA0	I	OCDAT
97	DA1	I	DWDET
98	DA2	O	LOPEN
99	DA3	O	LCLOSE
100	DAVDD	-	Reference voltage

■ UPD784215AGC (IC681) : Dital signal controller

1. Pin layout



2. Pin function (1/2)

Pin No.	Symbol	I/O	Function
1~8		-	Non connect
9	VDD	-	Power supply terminal
10	X2	O	Connecting the crystal oscillator for system main clock
11	X1	I	Connecting the crystal oscillator for system main clock
12	VSS	-	Connect to GND
13	XT2	O	Connecting the crystal oscillator for system sub clock
14	XT1	I	Connecting the crystal oscillator for system sub clock
15	$\overline{\text{RESET}}$	I	System reset signal input
16	$\overline{\text{AUTODATA}}$	I	Output of DSP to general-purpose port
17	LOCK	I	Output of DSP to general-purpose port
18	DIGITAL0	I	Output of DSP to general-purpose port
19	FORMAT	I	Output of DSP to general-purpose port
20	CHANNEL	I	Output of DSP to general-purpose port
21	ERR	I	Output of DSP to general-purpose port
22	$\overline{\text{REST IN}}$	I	Reset signal input
23	AVDD	-	Power supply terminal
24	AVREF0	-	Connect to GND
25		-	Connect to GND
26		-	Connect to GND
27		-	Connect to GND
28		-	Connect to GND
29		-	Connect to GND
30		-	Connect to GND
31		-	Connect to GND
32		-	Connect to GND
33	AVSS	-	Connect to GND
34,35		-	Non connect
36	AV REF1	-	Power supply terminal
37	RX	-	Not use
38	TX	-	Not use
39		-	Non connect
40	$\overline{\text{DSPCOM}}$	I	Communication port from IC701
41	DSPSTS	O	Status communication port to IC701
42	$\overline{\text{DSPCLK}}$	I	Clock input from IC701
43	DSPRDY	I	Ready signal input from IC701
44		-	Non connect
45	MIDIO IN	I/O	Interface I/O terminal with microcomputer
46	MIDIO OUT	I/O	Interface I/O terminal with microcomputer
47	$\overline{\text{MICK}}$	O	Interface I/O terminal with microcomputer of clock signal
48	$\overline{\text{MICS}}$	O	Interface I/O terminal with microcomputer of chip select

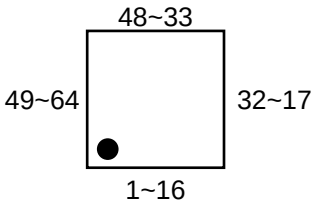
Pin function (2/2)

UPD784215AGC167

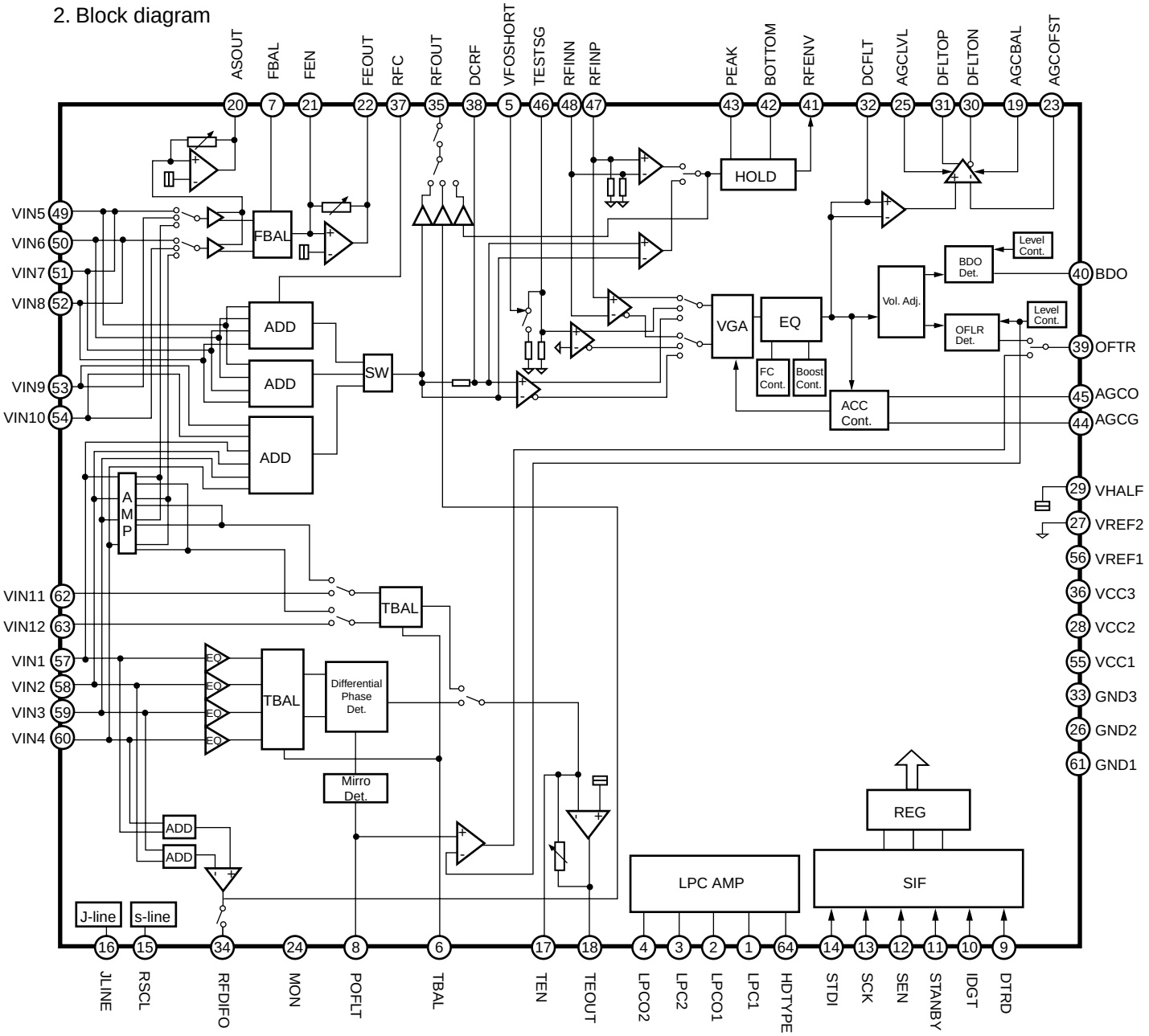
Pin No.	Symbol	I/O	Function
49	$\overline{\text{MILP}}$	O	Interface I/O terminal with microcomputer
50	$\overline{\text{MIACK}}$	O	Interface I/O terminal with microcomputer
51		-	Non connect
52		-	Non connect
53	$\overline{\text{DSPRST}}$	O	Reset signal output of DSP
54~63		-	Non connect
64	CODEC OUT	I/O	Interface I/O terminal with microcomputer
65	CODEC IN	I/O	Interface I/O terminal with microcomputer
66	$\overline{\text{CODEC CLK}}$	O	Interface I/O terminal with microcomputer of clock signal
67	$\overline{\text{CODEC CS}}$	O	Interface I/O terminal with microcomputer of chip select
68	CODEC XTS	-	Non connect
69		-	Non connect
70		-	Non connect
71	$\overline{\text{PD}}$	O	Reset signal output
72	GND	-	Connect to GND
73		-	Non connect
74		-	Non connect
75		-	Non connect
76		-	Non connect
77		-	Non connect
78		-	Non connect
79		-	Non connect
80		-	Non connect
81	VDD	-	Power supply
82		-	Non connect
83		-	Non connect
84	ANA/T-TONE	O	Test tone control
85	LEF-MIX	O	Control at output destination of LFE channel
86		-	Non connect
87	D.MUTE	O	Mute of the digital out terminal is controlled
88	$\overline{\text{S.MUTE}}$	O	Mute of the audio signal is controlled
89		-	Non connect
90	ASW1	O	Selection of digital input selector
91	ASW2	O	Selection of digital input selector
92	ASW3	O	Selection of digital input selector
93	ASW4	O	Selection of digital input selector
94	TEST	-	Test terminal
95		-	Non connect
96		-	Non connect
97		-	Non connect
98		-	Non connect
99		-	Non connect
100		-	Non connect

■ AN8703FH-V (IC101) : Front-end processor for DVD

1.Pin layout



2. Block diagram



3.Pin function (1/2)

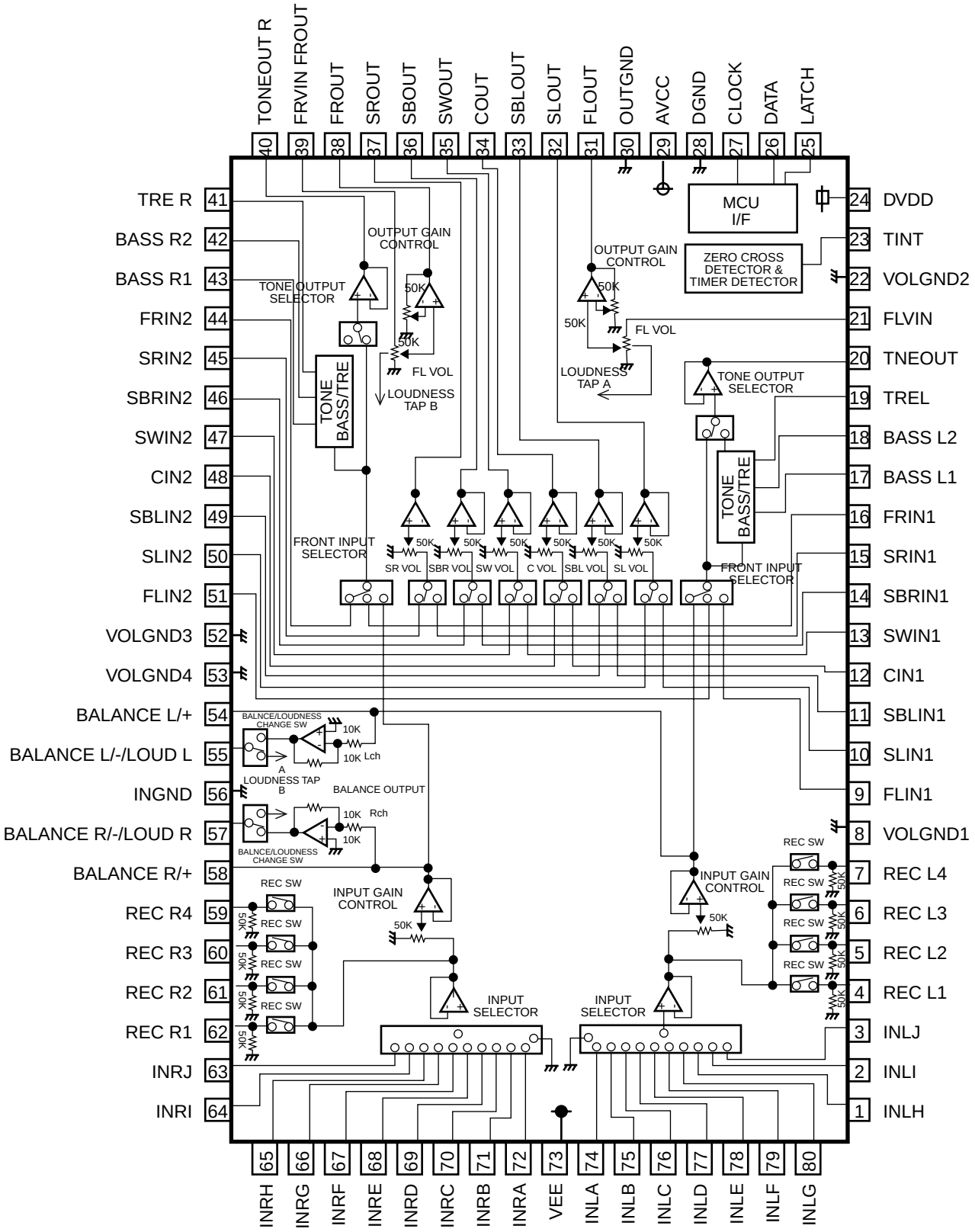
Pin No.	Symbol	Function
1	LPC1	Laser pin input (DVD head)
2	LPCO1	Laser drive output (DVD head)
3	LPC2	Laser pin input (CD head)
4	LPCO2	Laser drive output (CD head)
5	VFOSHORT	VFOSHORT control
6	TBAL	Tracking balance control
7	FBAL	Focus balance control

3.Pin function (2/2)

Pin No.	Symbol	Function
8	POFLT	Tracking detection threshold level
9	DTRD	Data slice data read signal input (for RAM)
10	IDGT	Data slice address gate signal input (for RAM)
11	STANBY	Standby mode control
12	SEN	SEN (serial data input)
13	SCK	SCK (serial data input)
14	STDI	STDI (serial data I/o)
15	RSCL	Reference current supply
16	JLINE	J-line current setting
17	TEN	Tracking error amplifier inverted input
18	TEOUT	Tracking error signal output
19	AGCBAL	Offset adjustment for DRC - 1
20	ASOUT	Full addition signal output
21	FEN	Focus error amplifier inverted input
22	FEOUT	Focus error signal output
23	AGCOFST	Offset adjustment for DRC - 2
24	MON	Monitor
25	AGCLVL	Output amplitude adjustment for DRC
26	GND2	Ground 2
27	VREF2	VREF2 voltage output
28	VCC2	Power supply 2 (5V)
29	VHALF	VHALF voltage output
30	DFLTON	Filter amplifier inverted output
31	DFLTOP	Filter amplifier positive output
32	DCFLT	Filter output capacitance connection
33	GND3	Ground3
34	RFDIFO	Radial differential output
35	RFOUT	RF full-addition amplifier output
36	VCC3	Power supply 3 (3.3V)
37	RFC	Filter for RF-group delay correction amplifier
38	DCRF	DC-cut filter for RF full-addition amplifier
39	OFTR	OFTR output
40	BDO	BDO output
41	RFENV	RF envelope output
42	BOTTOM	Bottom envelope detection filter
43	PEAK	Peak envelope detection filter
44	AGCG	AGC amplifier gain control
45	AGCO	AGC amplifier level control
46	TESTSG	TEST signal input
47	RFINP	RF signal positive input
48	RFINN	RF signal inverted input
49	VIN5	Internal four-partition (CD) RF input 1
50	VIN6	Internal four-partition (CD) RF input 2
51	VIN7	Internal four-partition (CD) RF input 3
52	VIN8	Internal four-partition (CD) RF input 4
53	VIN9	External two-partition (DVD) RF input 2
54	VIN10	External two-partition (DVD) RF input 1
55	VCC1	Power supply 1 (5V)
56	VREF1	VREF1 voltage output
57	VIN1	Internal four-partition (DVD) RF input 1
58	VIN2	Internal four-partition (DVD) RF input 2
59	VIN3	Internal four-partition (DVD) RF input 3
60	VIN4	Internal four-partition (DVD) RF input 4
61	GND1	Ground 1
62	VIN11	3-beam sub (CD) input 2
63	VIN12	3-beam sub (CD) input 1
64	HDTYPE	HD type selection

■ M61516FP (IC301) : Sound controller

1. Block diagram

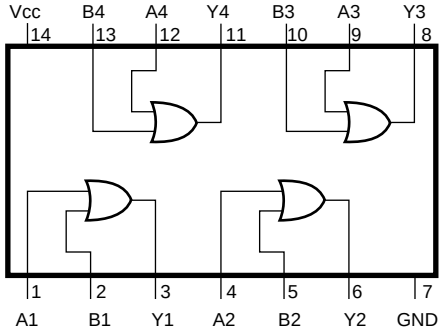


2.Pin function

Pin No.	Symbol	Function
74,75,76,77,78, 79,80,1,2,3	INLA,B,C,D,E,F,G,H,I,J	Lch input
4,5,6,7,59,60,61	REC L1,L2,L3,L4 /REC R1,R2,R3,R4	REC output
8,22,52,53	VOLGND1,2,3,4	Analog GND for vol.
9,51	FLIN1/FLIN2	FLch input
10,50	SLIN1/SLIN2	SLch input
11,49	SBLIN1/SBLIN2	SBLch input
12,48	CIN1/CIN2	Cch input
13,47	SWIN1/SWIN2	SWch input
14,46	SBRIN1/SBRIN2	SBRch input
15,45	SRIN1/SRIN2	SRch input
16,44	FRIN1/FRIN2	FRch input
17,18,42,43	BASS L1,L2/BASS R1,R2	Tone path frequency characteristic setup
19,41	TRE L/TRE R	Tone treble frequency characteristic setup
20,40	TONEOUT L/TONEOUT R	Tone output
21	FLVIN	FL vol. input
23	TIM1	Timer setup
24	DVDD	Internal logic circuit Power supply terminal
12,26,27	LATCH,DATA,CLOCK	CLOCK,DATA,LATCH input for serial data transmission
28	DGND	Internal logic circuit GND terminal
29	AVCC	Internal analog circuit Power supply terminal(+)
30	OUTGND	Analog GND
31	FLOUT	FLch output
32	SLOUT	SLch output
33	SBLOUT	SBLch output
34	COUT	Cch output
35	SWOUT	SWch output
36	SBROUT	SBRch output
37	SROUT	SRch output
38	FROUT	FRch output
39	FRVIN	FR vol. input
54,55	LOUD L/BALANCE L/+,L/-	Lch loudness frequency setup/Lch balance output for ADC
56	INGND	Analog GND
57,58	LOUD R/BALANCE R/+,R/-	Rch loudness frequency setup/Rch balance output for ADC
62,63,64,65,66, 67,68,69,70	INRA,B,C,D,E,F,G,H,I,J	Rch input
73	AVEE	Internal analog circuit Power supply terminal(-)

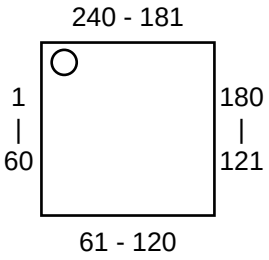
■ MM74HCT32MTC (IC521) : OR gate

1.Pin layout

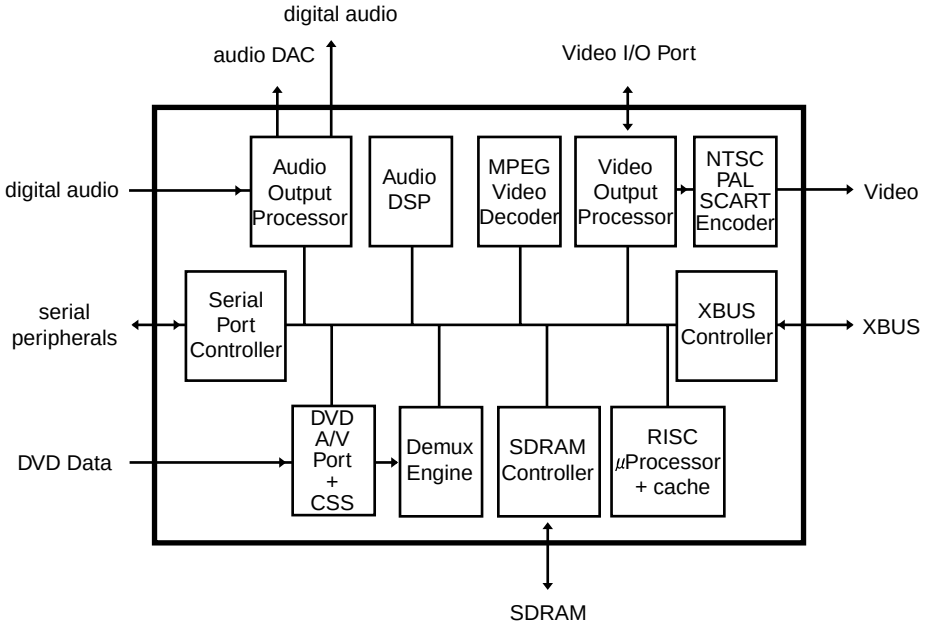


■ NDV8601VWA-BB (IC501) : Pantera

1.Pin layout



2. Block diagram



3.Pin function (1/4)

Pin No.	Symbol	I/O	Function
1	VDDIO		I/O pad power =3.3V
2, 3	MD	I/O	SDRAM data bus
4	VDD		Core power =1.8V
5	MD	I/O	SDRAM data bus
6	VSSIO		I/O pad ground
7, 8, 9	MD	I/O	SDRAM data bus
10	VDDIO		I/O pad power =3.3V
11	DQM	O	SDRAM data byte enables
12, 13	MA	O	SDRAM address bus
14	VSSIO		I/O pad ground
15, 16	MA	O	SDRAM address bus
17	VSS		Core and Ring ground
18	MA	O	SDRAM address bus
19	VDDIO		I/O pad power =3.3V
20, 21	MA	O	SDRAM address bus
22	MCLK	O	SDRAM clock
23	VSSIO		I/O pad ground
24	CKE	O	SDRAM clock enable
25, 26	MA	O	SDRAM address bus
27	VDDIO		I/O pad power =3.3V
28-30	MA	O	SDRAM address bus
31	VSSIO		I/O pad ground
32, 33	MA	O	SDRAM address bus, reserved for pin compatibility with 64Mb SDRAM
34	VDD		Core power =1.8V
35	CS0	O	SDRAM primary bank chip select
36	VDDIO		I/O pad power =3.3V
37	RAS	O	SDRAM command bit
38	CAS	O	SDRAM command bit
39	WE	O	SDRAM command bit
40	VSSIO		I/O pad ground
41, 42	DQM	O	SDRAM data byte enables

3.Pin function (2/4)

Pin No.	Symbol	I/O	Function
43	MD	I/O	SDRAM data bus
44	VDDIO		I/O pad power =3.3V
45, 46	MD	I/O	SDRAM data bus
47	VSS		Core and Ring ground
48	MD	I/O	SDRAM data bus
49	VSSIO		I/O pad ground
50-52	MD	I/O	SDRAM data bus
53	VDDIO		I/O pad power =3.3
54, 55	MD	I/O	VSDRAM data bus
56	MD	I/O	SDRAM data bus
57	VSSIO		I/O pad ground
58-61	MD	I/O	SDRAM data bus
62	VDDIO		I/O pad power =3.3V
63, 64	MD	I/O	SDRAM data bus
65	DQM	O	SDRAM data byte enables
66	CS1	O	SDRAM extension bank chip select
67	VSSIO		I/O pad ground
68	SPDIF	O	S/PDIF digital audio output
69	VSS		Core and Ring ground
70	AIN	I	Digital audio input for digital micro
71	AOUT3	O	Serial audio output data to audio DAC for Lch and Rch for down-mixed stereo
72	AOUT2	O	Serial audio output data to audio DAC for SLch and SRch
73	AOUT1	O	Serial audio output data to audio DAC for Cch and LFEch
74	AOUT0	O	Serial audio output data to audio DAC for Lch and Rch
75	VDDIO		I/O pad power =3.3V
76	PCMCLK	O	Audio DAC PCM sampling click frequency, common clock for DACs and ADC
77	VDD		Core power =1.8V
78	ACLK	O	Audio interface serial data clock, common clock for DACs and ADC
79	LRCLK	O	L/R channel clock, common clock for DACs and ADC
80	SRST	O	Active low RESET signal for peripheral reset
81	RSTP	I	RESET_Power
82	VSSIO		I/O pad ground
83	RXD1	I	UART1 serial data input from external serial devise
84	SSPIN1/BAUD1	I/O	SSP1 data in or 16X clock for USART function in UART1
85	VSS		Core and Ring ground
86	SSPOUT1/DTR1	I/O	SSP1data out or UART1 data-terminal-ready signal
87	SSPCLK1/CTS1	I/O	SSP1clock or UART1 clear-to-send signal
88	SSPCLK0/RTS1	I/O	SSP0 clock or request-to-send function in UART1
89	VDD		Core power =1.8V
90	SSPIN0/BAUD0	I/O	SSP0 data in or 16X clock for USART function in UART0
91	VDDIO		I/O pad power =3.3V
92	SSPOUT0/DTR0	I/O	SSP0 data out or UART0 data-terminal-ready signal
93	TXD0	I/O	UART0 serial data output to an external serial device
94	RXD0	I	UART0 serial data input from external serial device
95	CTS0	I/O	UART0 clear-to-send signal
96	RTS0	I/O	UART0 request-to-send signal
97	VSSIO		I/O pad ground
98	CXI	I	Crystal input pin for on-chip oscillator or system input clock
99	CXO	O	Crystal output pin for on-chip oscillator
100	OSCVss		Oscillator ground
101	OSCVdd		Oscillator power
102	MVCKVdd		Main and video clock PLL power
103	SCEN	I	Scan chain test enable
104	MVCKVss		Main and video clock PLL ground
105	ACLKVss		Audio clock PLL ground
106	SCMD	I	Scan chain test mode
107	ACLKVdd		Audio clock PLL power

3.Pin function (3/4)

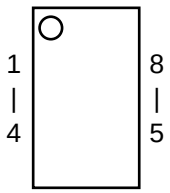
Pin No.	Symbol	I/O	Function
108	VddDAC		DAC digital power
109	VssDAC		DAC digital ground
110	DAC3	O	Video DAC3 output
111	IOM	O	Cascaded DAC differential output used to dump current into external resistor for power
112	DAC2	O	Video DAC2 output
113	Vaa3		DAC analog power
114	DAC1	O	Video DAC1 output
115	Vssa		DAC analog ground
116	VREF	I	Input voltage reference for output DACs
117	NC		Unused
118	DAC0	O	Video DAC output
119	RSET	O	Current setting resistor of output DACs
120	COMP	O	Compensation capacitor connection
121	VSS		Core and Ring ground
122	VIOCLK	I/O	VCLK input/output for video I/O port function
123	VSYNC	I/O	Bi-directional VSYNC signal for devices
124	HSYNC	I/O	Bi-directional HSYNC signal for devices
125	VDDIO		I/O pad power =3.3V
126-131	VIO	I/O	Bi-directional digital video port data bus
132	VSSIO		I/O pad ground
133, 134	VIO	I/O	Bi-directional digital video port data bus
135	VDD		Core power =1.8V
136-139	AD	I/O	uP multipleced address/data bus
140	VDDIO		I/O pad power =3.3V
141-144	AD	I/O	uP multipleced address/data bus
145	PWE	I/O	Byte write enable for FLASH, EEPROM, SRAM or peripherals
146	AD	I/O	uP multipleced address/data bus
147	VSSIO		I/O pad ground
148-153	AD	I/O	uP multipleced address/data bus
154	VDDIO		I/O pad power =3.3V
155	AD	I/O	uP multipleced address/data bus
156	PWE	I/O	Byte write enable for FLASH, EEPROM, SRAM or peripherals
157, 158	AD	I/O	uP multipleced address/data bus
159	VDD		Core power =1.8V
160	SCLK	O	Ecternal bus clock used for programmable host bus peripherals
161	ACK	I/O	Programmable WAIT-/ACK-/RDY- control
162	VSSIO		I/O pad ground
163-168	AD	I/O	uP multipleced address/data bus
169	VDDIO		I/O pad power =3.3V
170	PWE	I/O	Byte write enable for FLASH, EEPROM, SRAM or peripherals
171	VSS		Core and Ring ground
172-176	AD	I/O	uP multipleced address/data bus
177	VSSIO		I/O pad ground
178-180	AD	I/O	uP multipleced address/data bus
181	VDDIO		I/O pad power =3.3V
182	PWE	I/O	Byte write enable for FLASH, EEPROM, SRAM or peripherals
183	ALE	I/O	Address latch enable
184-187	LA	I/O	Latched address
188	VSSIO		I/O pad ground
189	RD	I/O	Read
190	LHLDA	O	Bus hold acknwledge in slave mode
191	LHLD	I	Bus hold request from extrnal master in slave mode
192	VDD		Core power =1.8V
193	PCS0	O	Peripheral chip select 0
195	XIO	I/O	External input/output
196	VDDIO		I/O pad power =3.3V
197-200	XIO	I/O	External input/output

3.Pin function (4/4)

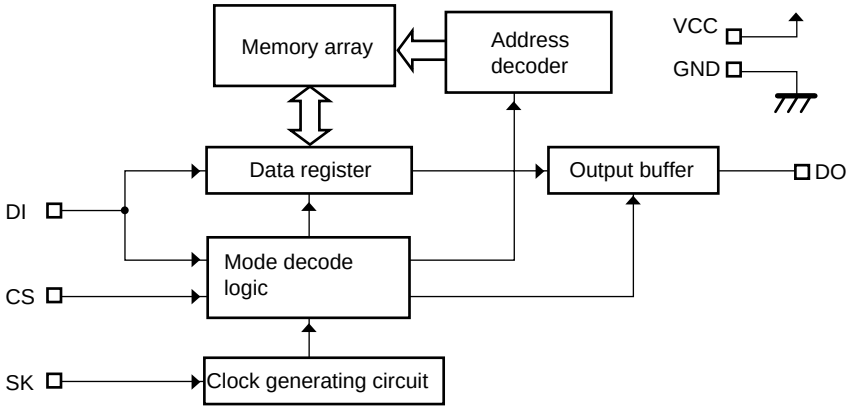
Pin No.	Symbol	I/O	Function
201	VSS		Core and Ring ground
202-203	XIO	I/O	External input/output
204	VSSIO		I/O pad ground
205-209	XIO	I/O	External input/output
210	VDDIO		I/O pad power =3.3V
211	XIO	I/O	External input/output
212	VDD		Core power =1.8V
213	DSYNC	I	DVD parallel mode Sector Sync
214	DRQE	O	DVD parallel mode Data Request
215	DCLK	I	Data sampling clock
216	DSTB	I	Parallel mode Data valid, serial mode left/ right clock
217	DVD	I	DVD drive parallel data port
218	VSSIO		I/O pad ground
219-223	DVD	I	DVD drive parallel data port
224	VDDIO		I/O pad power =3.3V
225	DVD	I	DVD drive parallel data port
226	DVD	I	DVD drive parallel data port
227	MD	I/O	SDRAM data bus
228	VSSIO		I/O pad ground
229	MD	I/O	SDRAM data bus
230	VSS		Core and Ring ground
231, 232	MD	I/O	SDRAM data bus
233	VDDIO		I/O pad power =3.3V
234-236	MD	I/O	SDRAM data bus
237	VSSIO		I/O pad ground
238-240	MD	I/O	SDRAM data bus

■ S-93C66AFJ-X (IC451) : Memory

1.Pin layout



2. Block diagram

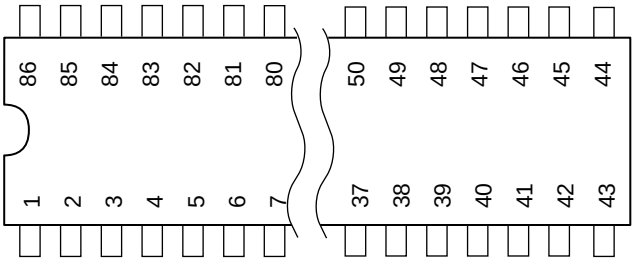


3.Pin function

Pin No.	Symbol	Function
1	NC	No connection
2	VCC	Power supply
3	CS	Chip select input
4	SK	Selial clock input
5	DI	Serial data input
6	DO	Serial data output
7	GND	Ground
8	TEST	Test

■ W986432DH-7 (IC505) : 32 Bits SDRAM

1.Pin layout



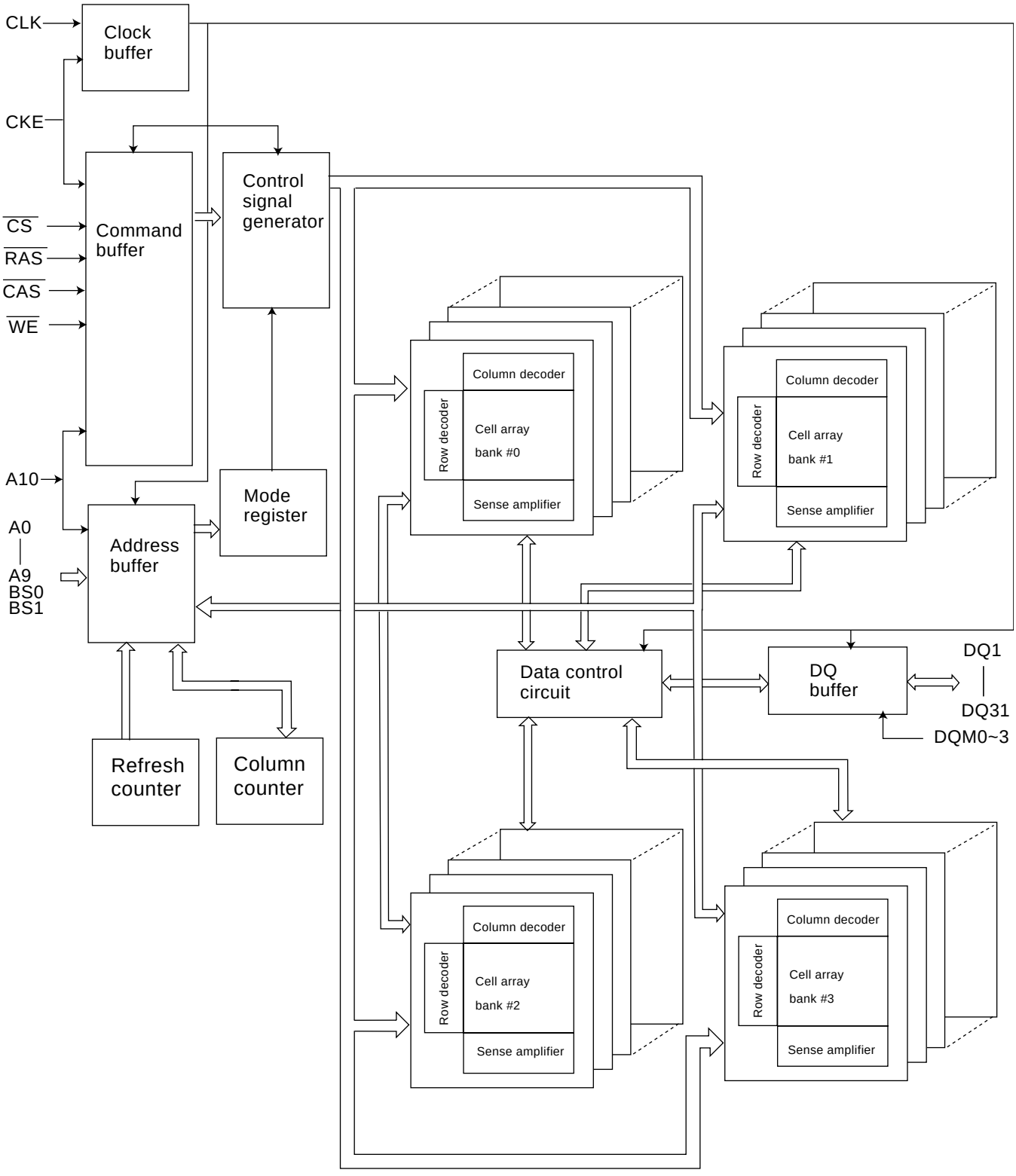
2.Pin function

Pin No.	I/O	Symbol	Function
1	-	Vcc	Power for input buffers and logic circuit inside DRAM. (+3.3V)
2	I/O	DQ0	Multiplexed pins for data output and input.
3	I/O	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
4~5	I/O	DQ1~DQ2	Multiplexed pins for data output and input.
6	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
7~8	I/O	DQ3~DQ4	Multiplexed pins for data output and input.
9	I/O	VccQ	Separated power from VCC, to improve DQ noise immunity.
10~11	I/O	DQ5~DQ6	Multiplexed pins for data output and input.
12	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
13	I/O	DQ7	Multiplexed pins for data output and input.
14	-	NC	No connection
15	-	Vcc	Power for input buffers and logic circuit inside DRAM. (+3.3V)
16	I/O	DQM0	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
17	-	$\overline{WE}$	Referred to $\overline{RAS}$
18	-	$\overline{CAS}$	Referred to $\overline{RAS}$
19	-	$\overline{RAS}$	Command input. When sampled at the rising edge of the clock $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
20	-	$\overline{CS}$	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
21	-	NC	No connection
22~23	- -	BS0 BS1	Select bank to activate during row address latch time, or bank to read / write during address latch time.
24~27	-	A0~A10	Multiplexed pins for row and column address. Row address: Ao-A10. Column address:A0-A7.A10 is sampled during a recharge command to determine if all banks are to be recharged or bank selected by BS0, BS1.
28	I/O	DQM2	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
29	-	Vcc	Power for input buffers and logic circuit inside DRAM. (+3.3V)
30	-	NC	No connection
31	I/O	DQ16	Multiplexed pins for data output and input.
32	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
33~34	I/O	DQ17~18	Multiplexed pins for data output and input.
35	I/O	VssQ	Separated power from VCC, to improve DQ noise immunity.

W986432DH-7

Pin No.	I/O	Symbol	Function
36~37	I/O	DQ19~20	Multiplexed pins for data output and input.
38	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
39~40	I/O	DQ21~22	Multiplexed pins for data output and input.
41	-	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
42	I/O	DQ23	Multiplexed pins for data output and input.
43	-	Vcc	Power for input buffers and logic circuit inside DRAM. (+3.3V)
44	-	Vss	Ground for input buffers and logic circuit inside DRAM.
45	I/O	DQ24	Multiplexed pins for data output and input.
46	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
47~48	I/O	DQ25~26	Multiplexed pins for data output and input.
49	-	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
50~51	I/O	DQ27~28	Multiplexed pins for data output and input.
52	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
53~54	I/O	DQ29~30	Multiplexed pins for data output and input.
55	-	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
56	I/O	DQ31	Multiplexed pins for data output and input.
57	-	NC	No connection
58	-	Vss	Ground for input buffers and logic circuit inside DRAM.
59	I/O	DQM3	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
60~66	-	A3~A9	Multiplexed pins for row and column address. Row address: Ao-A10. Column address:A0-A7.A10 is sampled during a recharge command to determine if all banks are to be recharged or bank selected by BS0, BS1.
67	-	CKE	CKE controls the clock activation and deactivation. When CKE is low, Power Down rising edge of clock.
68	I	CLK	System clock used to sample inputs on the rising edge of clock.
69~70	-	NC	No connection
71	I/O	DQM1	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
72	-	Vss	Ground for input buffers and logic circuit inside DRAM.
73	I/O	NC	No connection
74	I/O	DQ8	Multiplexed pins for data output and input.
75	I/O	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
76~77	I/O	DQ9~10	Multiplexed pins for data output and input.
78	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
79~80	I/O	DQ11~12	Multiplexed pins for data output and input.
81	I/O	VccQ	Separated power from VCC, to improve DQ noise immunity. (+3.3V)
82~83	I/O	DQ13~14	Multiplexed pins for data output and input.
84	I/O	VssQ	Separated power from VSS, to improve DQ noise immunity.
85	I/O	DQ15	Multiplexed pins for data output and input.
86	-	Vss	Ground for input buffers and logic circuit inside DRAM.

3. Block diagram



NOTE:

The cell array configuration is 2048 * 256 * 32

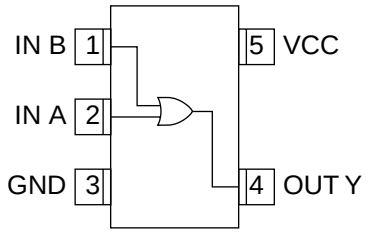
■ TC9446F-025 (IC631) : Digital signal processor for dolby digital (AC-3) / DTS audio decode

Pin No.	Symbol	I/O	Function
1	$\overline{RST}$	I	Reset signal input terminal (L:reset H: normal operation)
2	MIMD	I	Microcomputer interface mode selection input terminal (L:serial H:IC bus)
3	$\overline{MICS}$	I	Microcomputer interface chip select input terminal
4	$\overline{MILP}$	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Microcomputer interface data I/O terminal
6	$\overline{MICK}$	I	Microcomputer interface clock input terminal
7	MIACK	O	Microcomputer interface acknowledge output terminal
8~11	FI0~3	I	Flag input terminal 0~3
12	IRQ	I	Interrupt input terminal
13	VSS	-	Digital ground terminal
14	LRCKA	I	Audio interface LR clock input terminal A
15	BCKA	I	Audio interface bit clock input terminal A
16~18	SDO0~2	O	Audio interface data output terminal 0
19	SD03	-	Non connect
20	LRCKB	I	Audio interface LR clock input terminal B
21	BCKB	I	Audio interface bit clock input terminal B
22	SDT0	I	Audio interface data input terminal 0
23	SDT1	I	Audio interface data input terminal 1
24	VDD	-	Power supply for digital circuit
25	LRCKOA	O	Audio interface LR clock output terminal A
26	BCKOA	O	Audio interface bit clock output terminal A
27,28	$\overline{TEST0,1}$	I	Test input terminal 0/1 (L:test H: normal operation)
29~30	LRCKOB,BCKOB	-	Non connect
31	TXO	O	SPDIF Output
32,33	$\overline{TEST2,3}$	I	Test input terminal (L:test H: normal operation)
34	RX	I	SPDIF input terminal
35	VSS	-	Ground terminal for digital circuit
36	$\overline{TSTSUB0}$	I	Test sub input terminal 0 (L:test H: normal operation)
37	FCONT	O	VCO Frequency control output terminal
38,39	$\overline{TSTSUB1,TSTSUB2}$	I	Test sub input terminal 1,2 (L:test H: normal operation)
40	PDO	O	Phase detect signal output terminal
41	VDDA	-	Power supply for analog circuit
42	PLON	I	Clock selection input terminal (L:external clock H:VCO clock)
43	AMPI	I	amplifier input terminal for LPF
44	AMPO	O	amplifier output terminal for LPF
45	CKI	I	External clock input terminal
46	VSSA	-	Ground terminal for analog circuit
47	CKO	O	DIR Clock output terminal
48	LOCK	O	VCO Clock output terminal
49	$\overline{VSS}$	-	Ground terminal for digital circuit
50	$\overline{WR}$	O	External SRAM writing signal output terminal
51	$\overline{OE}$	O	External SRAM output enable signal output terminal
52	CE	O	External SRAM chip enable signal output terminal
53	VDD	-	Power supply terminal for digital circuit
54~61	IO7~0	I/O	External SRAM data I/O terminal 7~0
62	VSS	-	Ground terminal for digital circuit
63~70	AD0~7	O	External SRAM address output terminal 0~7
71	VDD	-	Power supply terminal for digital circuit
72~80	AD8~16	O	External SRAM address output terminal 8~16
81	VSS	-	Ground terminal for digital circuit
82~89	PO0~7	O	General purpose output terminal 0~7
90	VDDDL	-	Power supply terminal for DLL
91	LPFO	O	LPF output terminal for DLL
92,93	DLON,DLCKS	I	Refer to the undermentioned table
94	SCKO	-	Non connect
95	VSSDL	-	Ground terminal for DLL
96	SCKI	I	External system clock input terminal
97	VSSX	-	Ground termonal for oscillation circuit
98,99	XO,XI	I/O	Oscillation I/O terminal
100	VDDX	-	Power supply terminal for oscillation circuit

DLCKS terminal	DLONterminal	DLL clock setting
L	L	SCKI input (DLL circuit OFF)
L	H	Four times XI clock
H	L	Three times XI clock
H	H	Six times XI clock

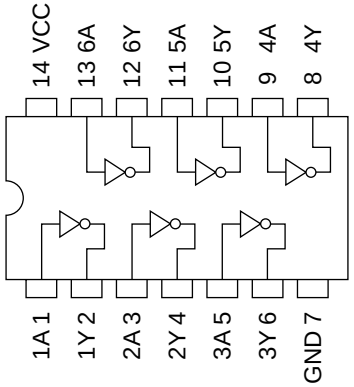
■ TC7SET32FU (IC683) : Z-Input or gate

1. Block diagram



■ TC74HCU04AF (IC621) : Inverter

1. Pin layout

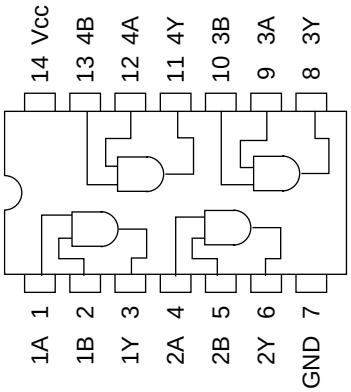


2. Truth table

A	Y
L	H
H	L

■ TC74HCU08AF (IC612) : Inverter

1. Block diagram

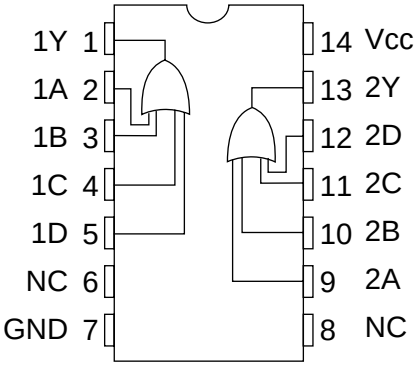


2.Truth table

A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ TC74HC4072AF (IC611) : 4-Input gate

1. Block diagram

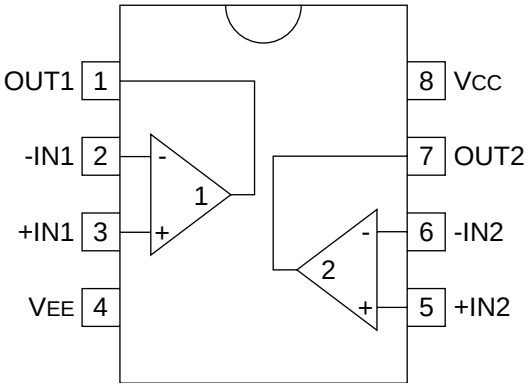


2. Truth table

A	B	C	D	Y
H	X	X	X	H
X	H	X	X	H
X	X	H	X	H
X	X	X	H	H
L	L	L	L	L

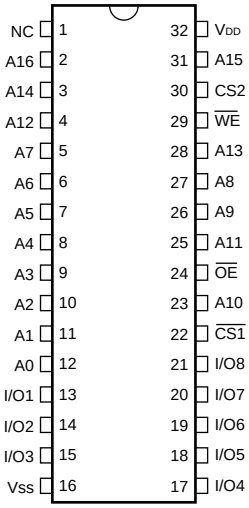
■ BA15218F (IC303, IC602, IC603, IC651, CI652, IC661, IC671, IC672) : Ope. amp.

1. Block diagram

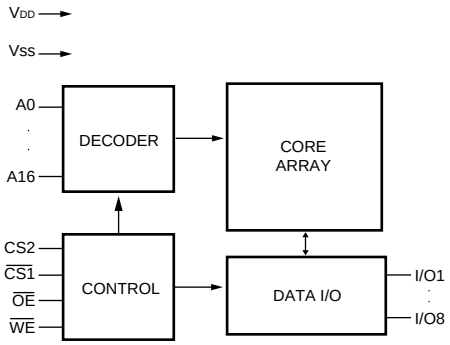


■LP61L1024S-12-X (IC641) : SRAM

1. Pin layout



2. Block diagram

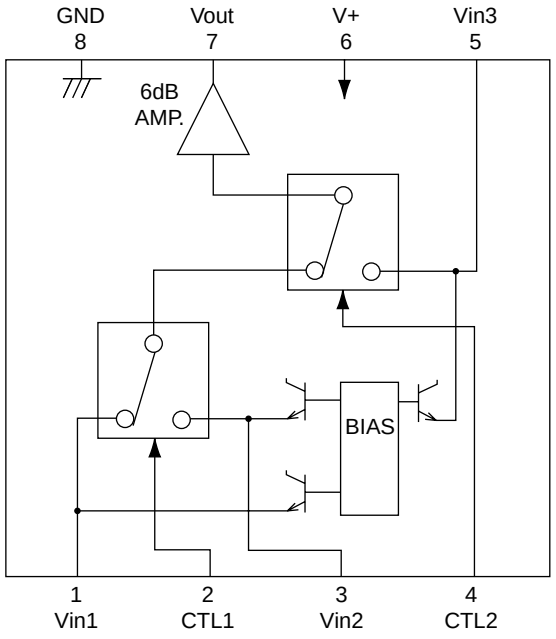


3. Pin function

Symbol	Description
A0 - A16	Address Input
I/O1 - I/O8	Data Input/Output
$\overline{CS1}$, CS2	Chip Select Inputs
$\overline{WE}$	Write Enable Input
$\overline{OE}$	Output Enable Input
VDD	Power Supply
Vss	Ground
NC	No Connection

■ NJM2246M (IC402, IC403, IC404) : Video switch

1. Pin layout / Block diaglam

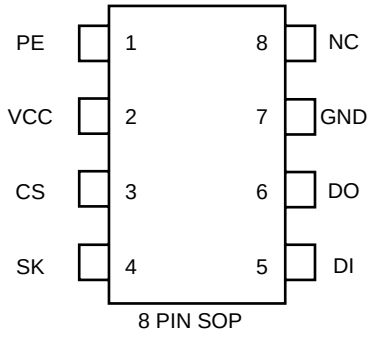


Control input - output signal

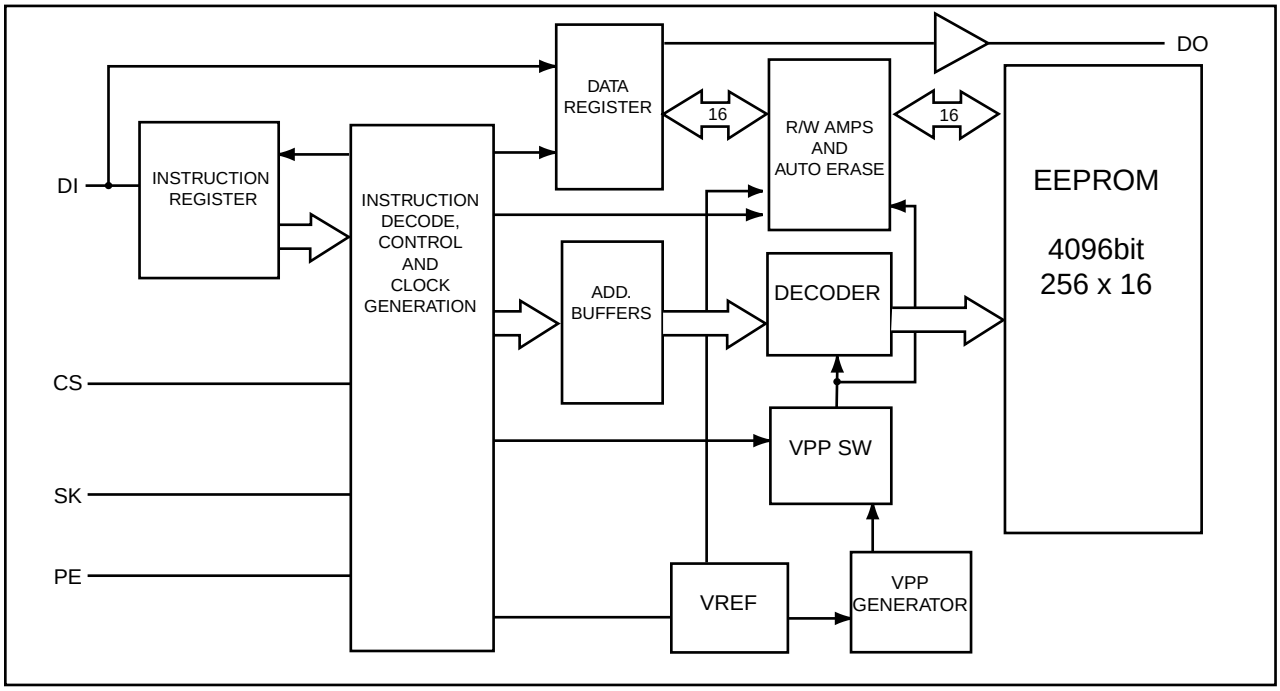
CTL 1	CTL 2	Output
L	L	VIN 1
H	L	VIN 2
L/H	H	VIN 3

■ AK93C65AF-X (IC510) : EEPROM

1.Pin layout



2.Block diagram



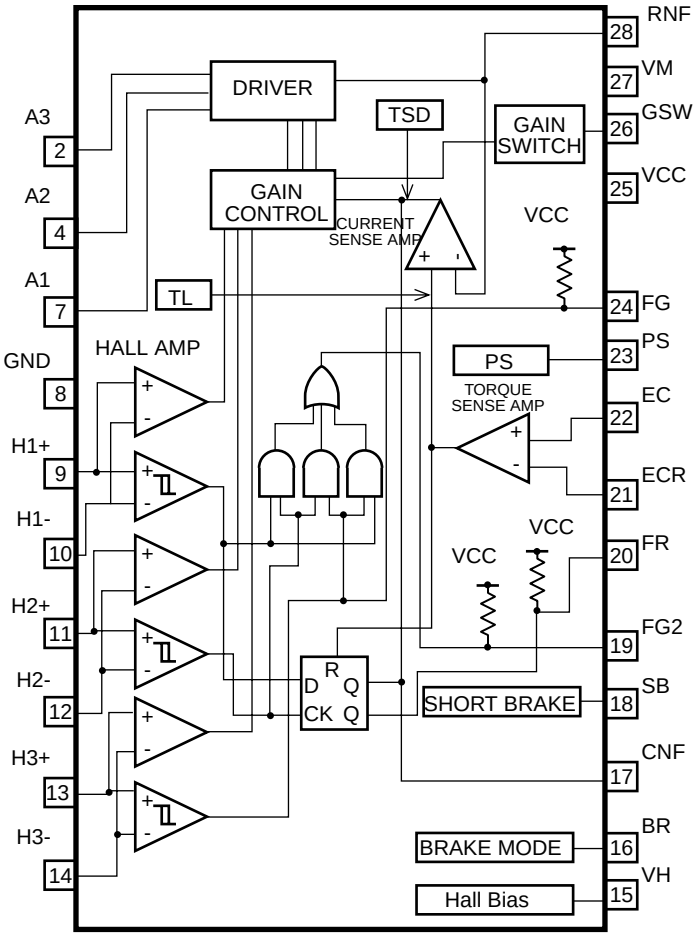
3.Pin function

Pin no.	Symbol	Function
1	PE	Program enable (With built-in pull-up resistor)
2	VCC	Power supply
3	CS	Chip selection
4	SK	Cereal clock input
5	DI	Cereal data input
6	DO	Cereal data output
7	GND	Ground
8	NC	No connection

NOTE : The pull-up resistor of the PE pin is about 2.5M Ω (VCC=5V)

■ BA6664FM (IC251) : Motor driver

1. Block diagram



2.Pin function

Pin No.	Symbol	Function
1	NC	NC
2	A3	Output3 for motor
3	NC	NC
4	A2	Output2 for motor
5	NC	NC
6	NC	NC
7	A1	Output1 for motor
8	GND	GND
9	H1+	Positive input for hall input Amp1
10	H1-	Negative input for hall input Amp1
11	H2+	Positive input for hall input Amp2
12	H2-	Negative input for hall input Amp2
13	H3+	Positive input for hall input Amp3
14	H3-	Negative input for hall input Amp3
15	VH	Hall bias terminal
16	BR	Brake Mode terminal
17	CNF	Capacitor connection pin for phase compensation
18	SB	Short brake terminal

Pin No.	Symbol	Function
19	FG2	N3Phase synthesized FG signal output terminal
20	FR	Rotation detect signal output terminal
21	ECR	Torque control standard voltage input terminal
22	EC	Torque control voltage input terminal
23	PS	START/STOP switch
24	FG	FG signal output terminal
25	Vcc	Power supply for signal division
26	GSW	Gain switch
27	VM	Power supply for driver division
28	RNF	Resistance connection pin for output current sense
FIN	FIN	GND

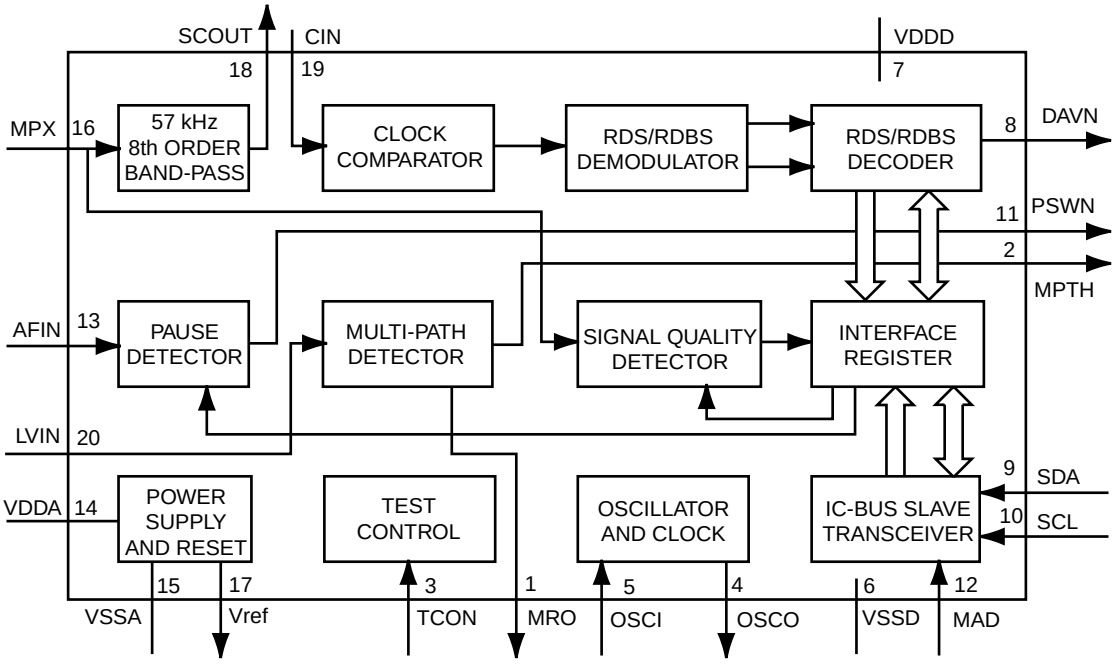
■ SAA6588 (IC302) : RDS detector

1.Pin layout

2.Pin function

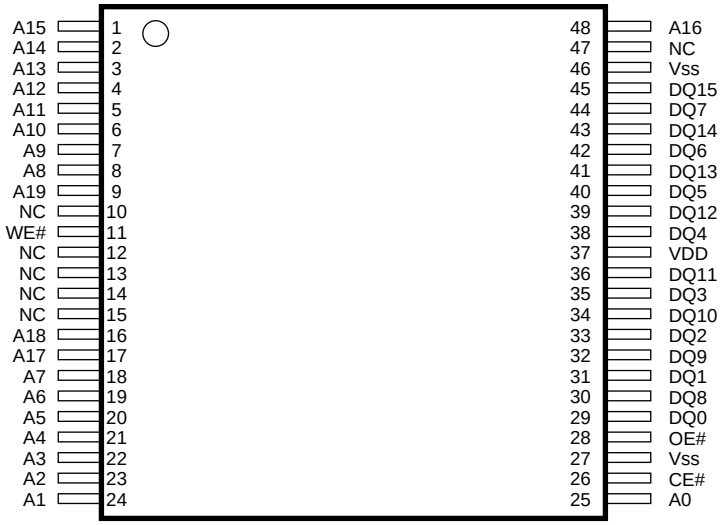
Pin No.	Symbol	I/O	Function
1	MRO	O	Multi-path rectifier output
2	NC	-	Non connect
3	GND	I	Test control input pin
4	OSCO	O	Oscillator output
5	OSCI	I	Oscillator input
6	VSSD	-	Digital ground (0V)
7	VDDD	-	Digital power supply (5V)
8	DAVN	O	Data available output (active LOW)
9	SDA	I/O	IC-bus serial data I/O
10	SCL	I	IC-bus serial clock input
11	NC	-	Non connect
12	GND	-	Connect to ground
13	NC	-	Non connect
14	VDDA	-	Analog power supply (5V)
15	VSSA	-	Connect to ground
16	MPX	I	Multiplex input signal
17	Vref	O	Reference voltage output
18	SCOUT	O	Band-pass filter output
19	CIN	O	Comparator output
20	NC	I	Level input

3.Block diagram

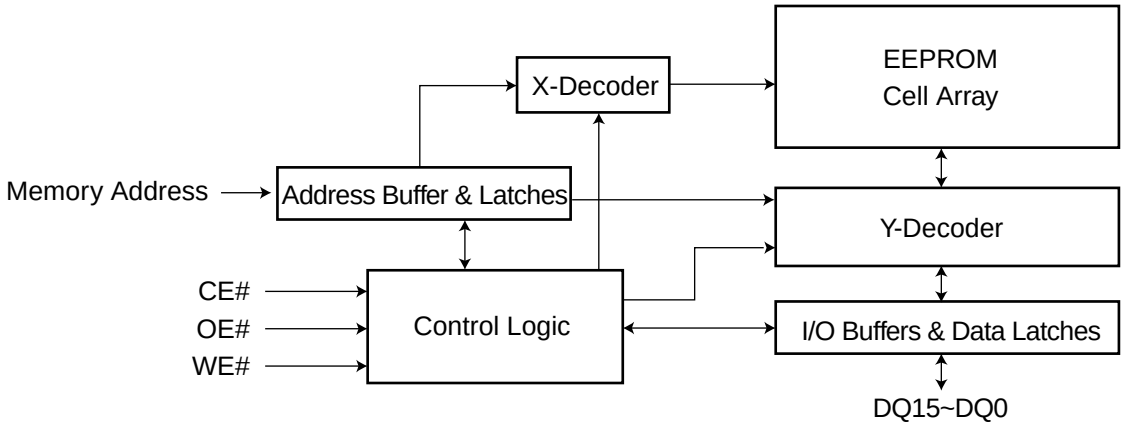


■ SST39VF160 (IC508, IC509) : EEPROM

1. Pin layout



2. Block diagram

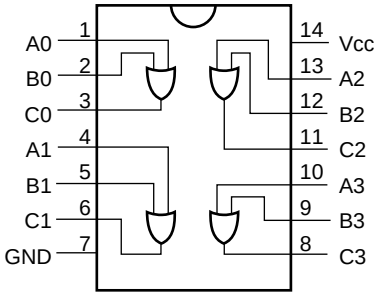


3. Pin function

Symbol	Pin name	Function
AMS- A0	Address Inputs	To provide memory address. During Sector-Erase AMS-A11 address lines will select the sector. During Block-Erase AMS-A15 address lines will select the block.
DQ15- DQ0	Data Input/Output	To output data during read cycles and receive input data during write cycles. Data is internally latched during a write cycle. The outputs are in tri-state when OE# or CE# is high.
CE#	Chip Enable	To active the device when CE# is low.
OE#	Output Enable	To gate the data output buffers.
WE#	Write Enable	To control the write operations.
VDD	Power Supply	To provide power supply voltage: 2.7-3.6V
Vss	Ground	
NC	No Connection	Unconnected Pins

■ 74LCX32MTC-X (IC522) : OR gate

1.Block diagram

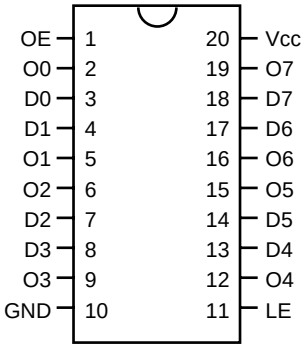


2.Pin function

Symbol	Description
An,Bn	Inputs
On	Outputs

■ 74LCX373MTC-X (IC512, IC513) : Latch

1.Pin layout



2. Pin function

Symbol	Description
D0-D7	Data Inputs
LE	Latch Enable Input
OE	Output Enable Input
O0-O7	3-STATE Latch Outputs

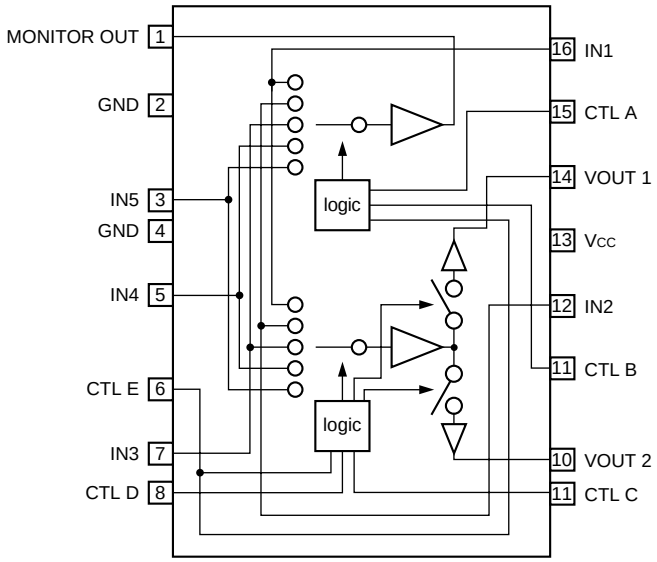
3.Truth table

Inputs			Outputs
LE	OE	Dn	On
X	H	X	Z
H	L	L	L
H	L	H	H
L	L	X	O0

H=HIGH Voltage Level
L=LOW Vlotage Level
Z=High Impedance
X=Immaterial
O0=Previous O0 before HIGH-to-LOW transition of Latch Enable

■ BA7625 (IC405) : Video selector

1.Block diagram



2.Truth table

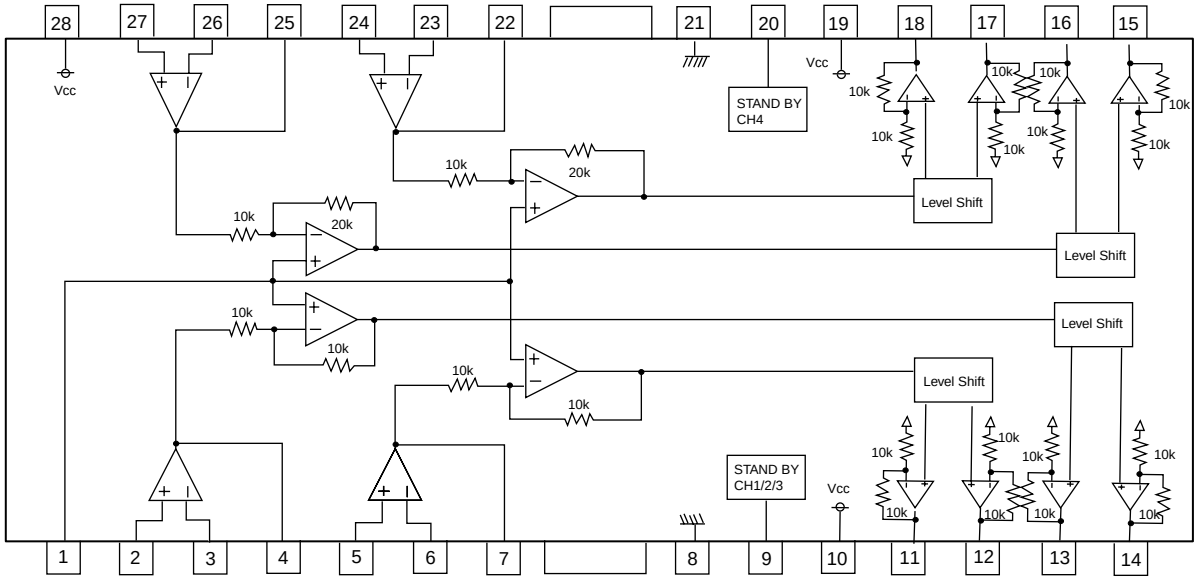
A	B	E	MONITOR OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT1
L	L	*	--
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT2
L	L	*	IN1
H	L	*	--
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

■ BA5983FM (IC201) : 4ch driver

1.Block diagram



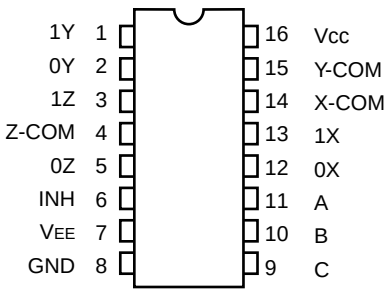
2.Pin function

Pin No.	Symbol	I/O	Function
1	BLAS IN	I	Input for Bias-amplifier
2	OPIN1(+)	I	Non inverting input for CH1 OP-AMP
3	OPIN1(-)	I	Inverting input for CH1 OP-AMP
4	OPOUT1	O	Output for CH1 OP-AMP
5	OPIN2(+)	I	Non inverting input for CH2 OP-AMP
6	OPIN2(-)	I	Inverting input for CH2 OP-AMP
7	OPOUT2	O	Output for CH2 OP-AMP
8	GND	-	Substrate ground
9	STBY1	I	Input for CH1/2/3 stand by control
10	PowVcc1	-	Vcc for CH1/2 power block
11	VO2(-)	O	Inverted output of CH2
12	VO2(+)	O	Non inverted outpur of CH2
13	VO1(-)	O	Inverted output of CH1
14	VO1(+)	O	Non inverted outpur of CH1

Pin No.	Symbol	I/O	Function
15	VO4(+)	O	Non inverted output of CH4
16	VO4(-)	O	Inverted output of CH4
17	VO3(+)	O	Non inverted output of CH3
18	VO3(-)	O	Inverted output of CH3
19	PowVcc2	-	Vcc for CH3/4 power block
20	STBY2	I	Input for Ch4 stand by control
21	GND	-	Substrate ground
22	OPOUT3	O	Output for CH3 OP-AMP
23	OPIN3(-)	I	Inverting input for CH3 OP-AMP
24	OPIN3(+)	I	Non inverting input for CH3 OP-AMP
25	OPOUT4	O	Output for CH4 OP-AMP
26	OPIN4(-)	I	Inverting input for CH4 OP-AMP
27	OPIN4(+)	I	Non inverting input for CH4 OP-AMP
28	PreVcc	-	Vcc for pre block

■TC74HC4053AF (IC406) : Multiplexer

1. Pin layout



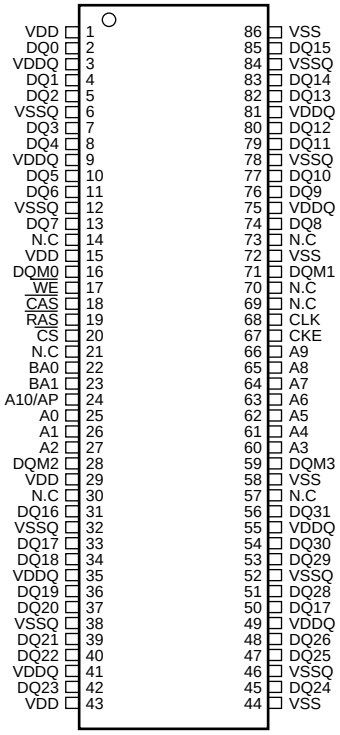
2. Truth table

CONTROL INPUTS				"ON" CHANNEL
INHIBIT	C	B	A	
L	L	L	L	0X, 0Y, 0Z
L	L	L	H	1X, 0Y, 0Z
L	L	H	L	0X, 1Y, 0Z
L	L	H	H	1X, 1Y, 0Z
L	H	L	L	0X, 0Y, 1Z
L	H	L	H	1X, 0Y, 1Z
L	H	H	L	0X, 1Y, 1Z
L	H	H	H	1X, 1Y, 1Z
H	X	X	X	NONE

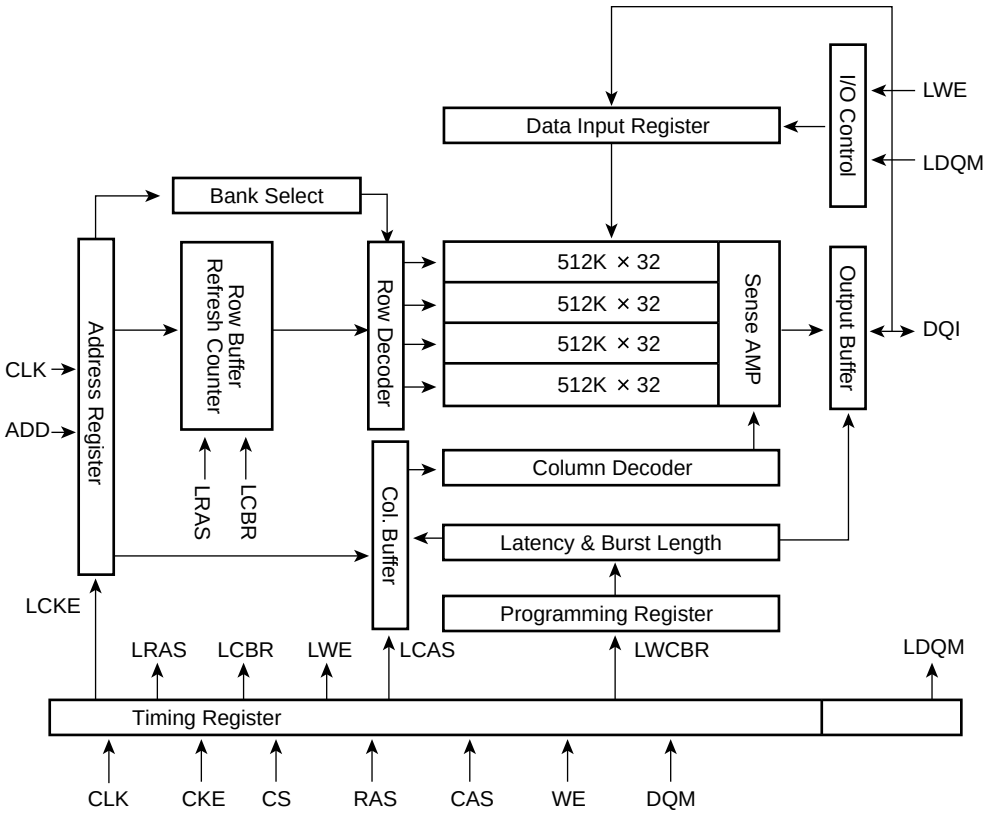
X: Don't Care.

■ K4S643232E-TC60 / K4S643232E-TC70 (IC505) : SDRAM

1.Pin layout



2. Block diagram

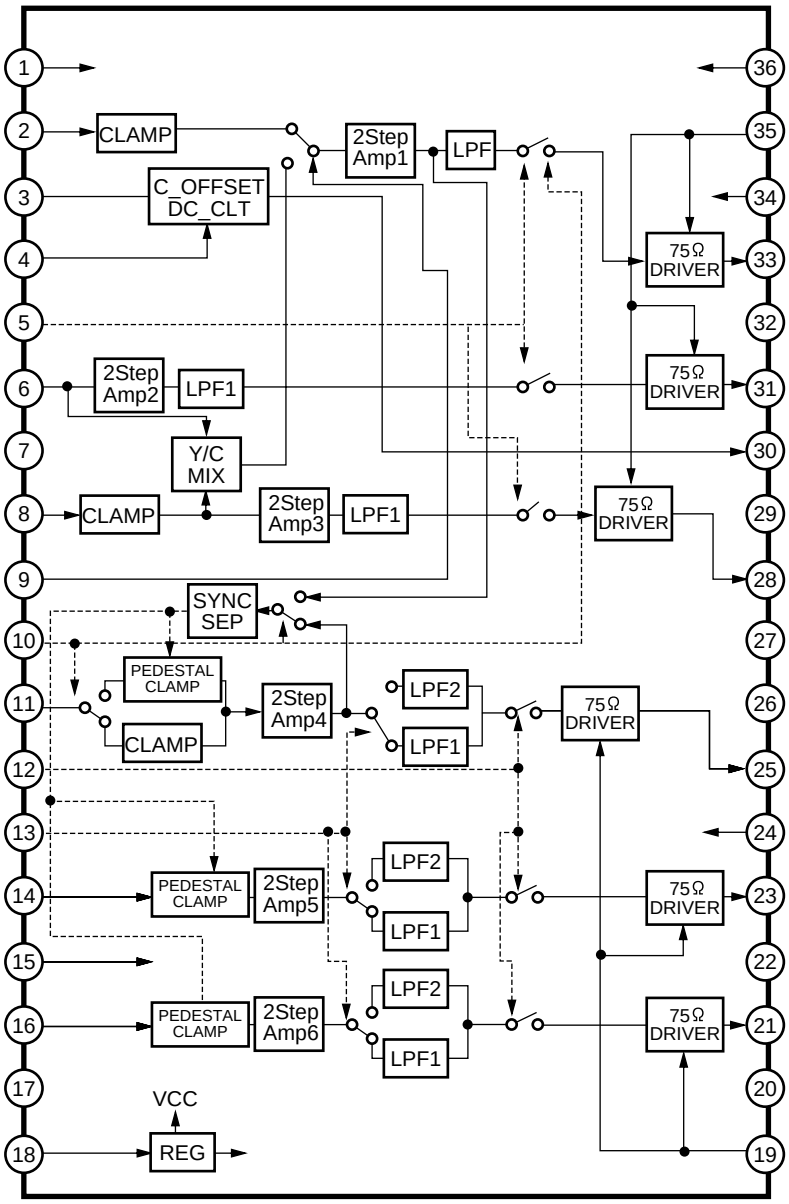


3.Pin function

Symbol	Function
CLK	System clock
CS	Chip select
CKE	Clock enable
A0~A10	Address
BA0,1	Bank select address
RAS	Row address strobe
CAS	Write enable
WE	Data input/output mask
DQM0~3	Data input/output
DQ0~31	Power supply/ground
VDD/VSS	Data output power/ground
VDDQ/VSSQ	Data output power/ground
N.C	No connection

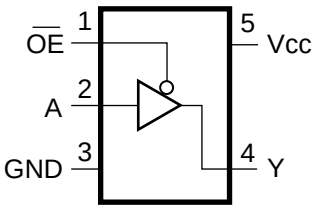
LA73054 (IC401) : Video driver

1. Block diagram



NC7SZ125P5-X (IC523) : Buffer

1.Pin layout



2.Pin function

Symbol	Function
A, $\overline{OE}$	Inputs
Y	Output

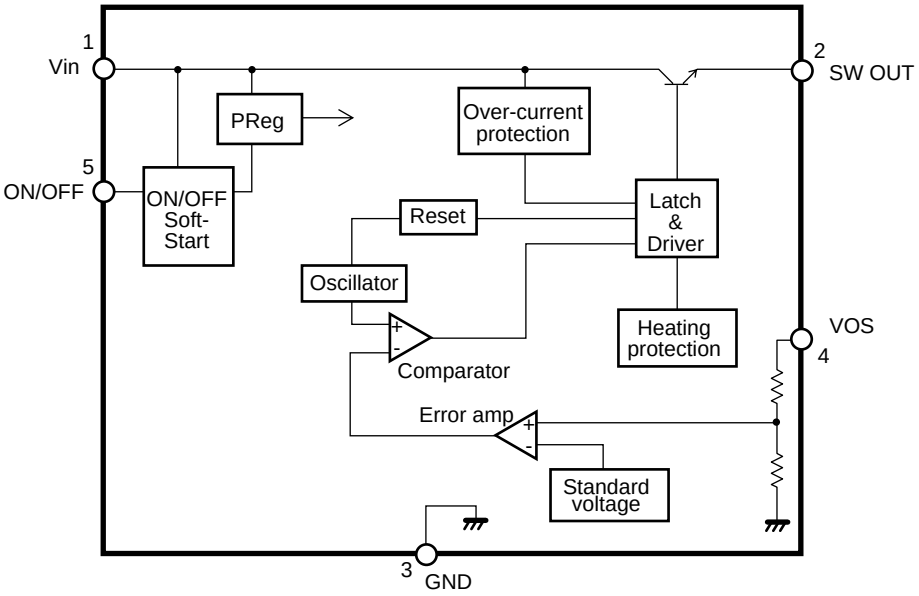
3. Truth table

Inputs		Outputs
$\overline{OE}$	In A	Out Y
L	L	L
L	H	H
H	X	Z

H=HIGH Logic Level
L=LOW Logic Level
X=HIGH or LOW Logic Level
Z=HIGH Impedance State

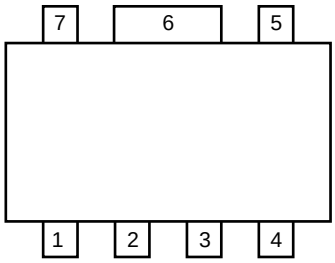
■ SI-8033JF (IC191) / SI-8050JF (IC192) / SI-8090JF (IC193) : Switching regulator

1. Block diagram

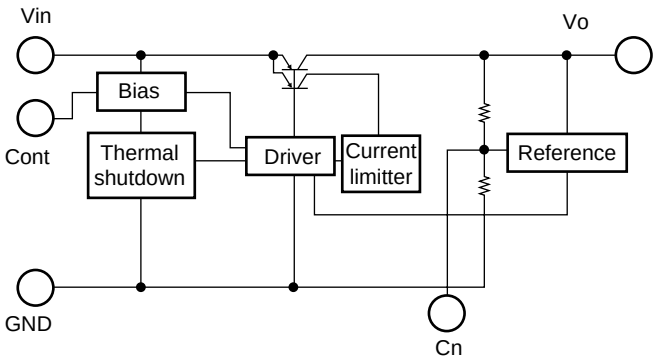


■ MM1563DF-X (IC615) : Regulator

1. Pin layout



2. Block diagram



3. Pin function

Pin No.	Symbol	Function
1	Vout	Output pin
2	NC	No connection
3	GND	Ground
4	Cn	Noise decrease pin
5	Cont	Control pin
6	Sub	Substrate
7	Vin	Input pin

< MEMO >

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMMUNICATION BUSINESS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.21154)

Printed in Japan
200210

JVC

SCHEMATIC DIAGRAMS

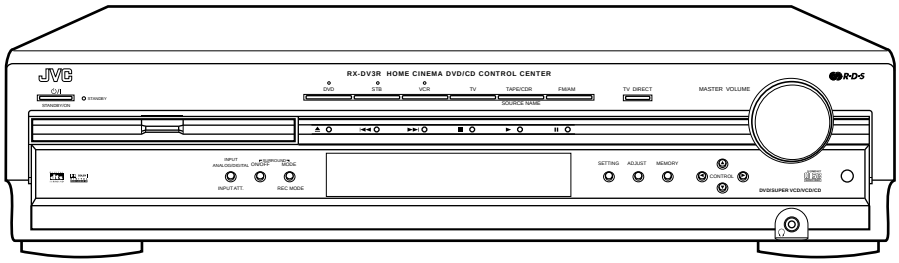
HOME CINEMA DVD/CD CONTROL CENTER

RX-DV3RSL

CD-ROM No.SML200210

Area suffix

B ---------- U.K.
E --- Continental Europe
EN----- Northern Europe



R·D·S

DVD VIDEO

COMPACT disc SUPER VIDEO

DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2-2
Printed circuit boards ---------- 2-12~16

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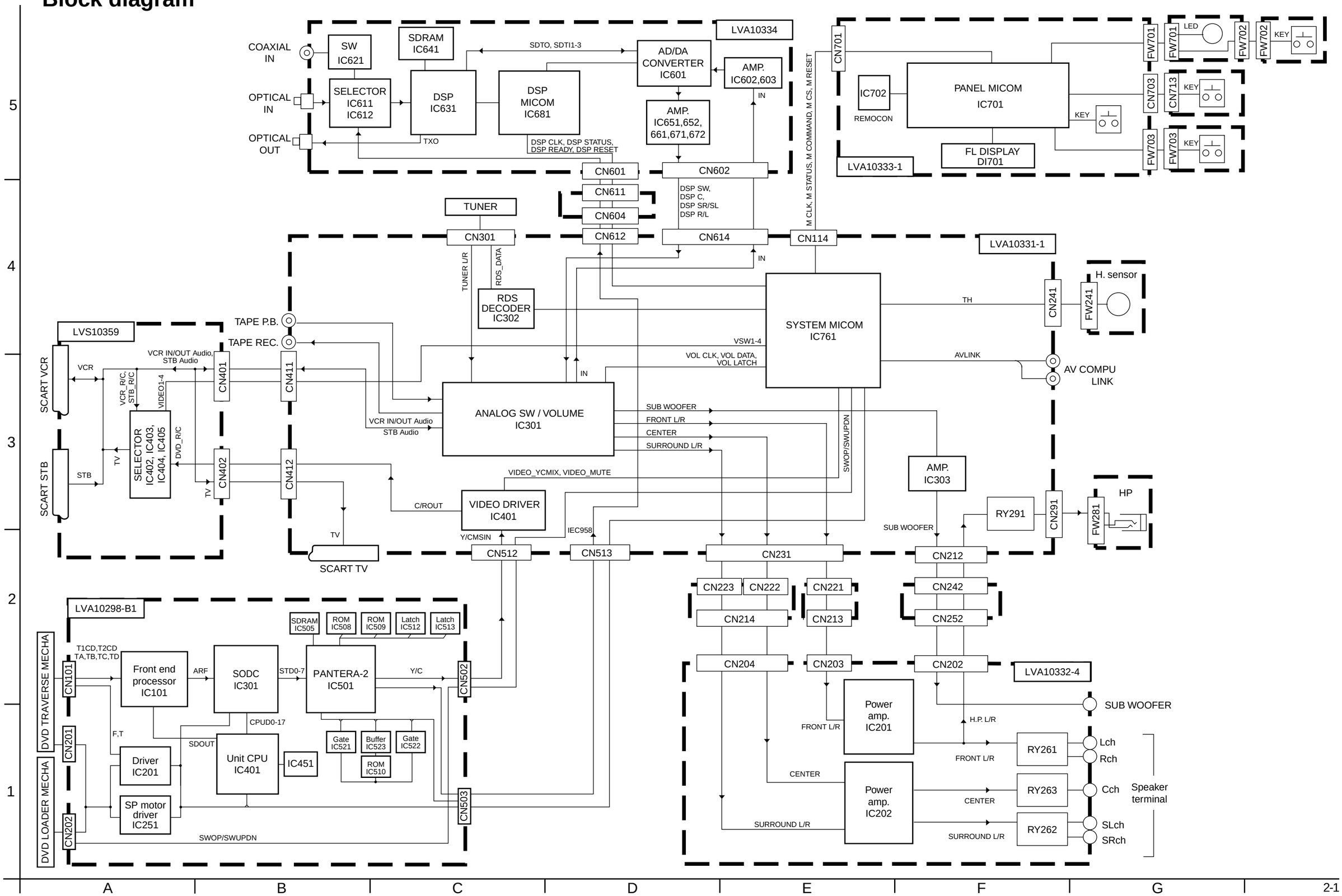
No.21154SCH
Oct. 2002

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

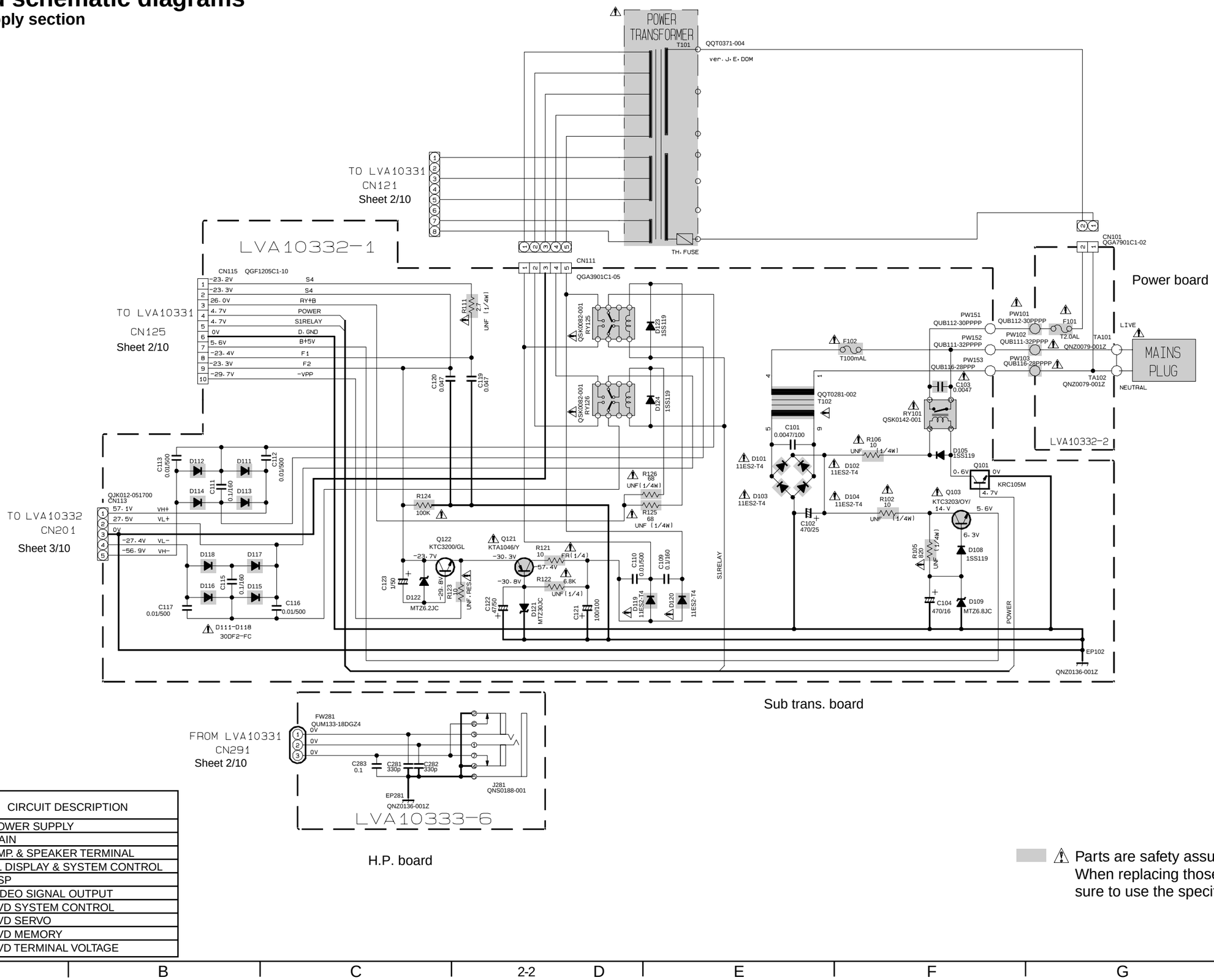
(This regulation does not correspond to J and C version.)

Block diagram



Standard schematic diagrams

■ Power supply section

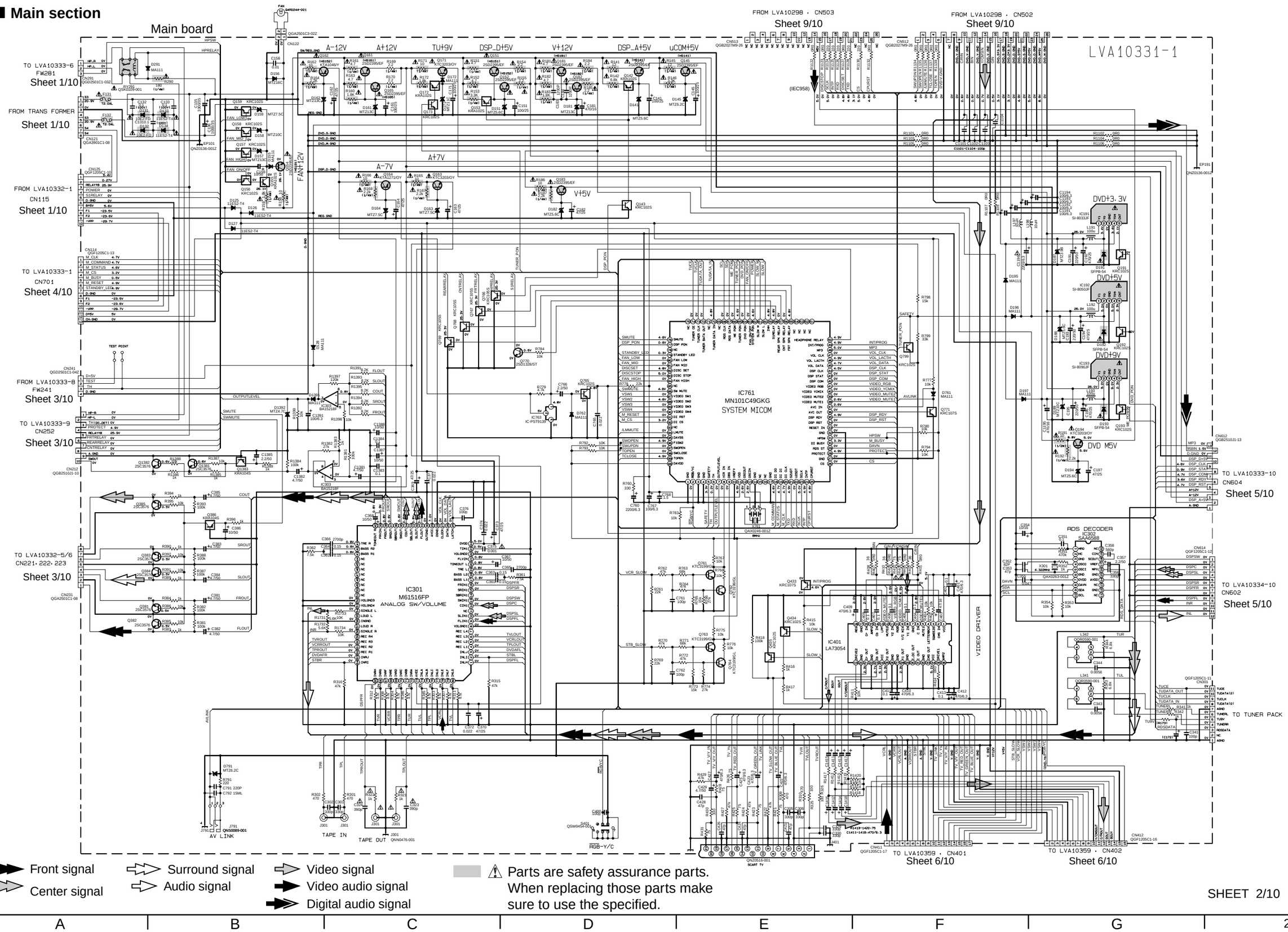


SHEET No.	CIRCUIT DESCRIPTION
1/10	POWER SUPPLY
2/10	MAIN
3/10	AMP. & SPEAKER TERMINAL
4/10	FL DISPLAY & SYSTEM CONTROL
5/10	DSP
6/10	VIDEO SIGNAL OUTPUT
7/10	DVD SYSTEM CONTROL
8/10	DVD SERVO
9/10	DVD MEMORY
10/10	DVD TERMINAL VOLTAGE

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

■ Main section

Main board



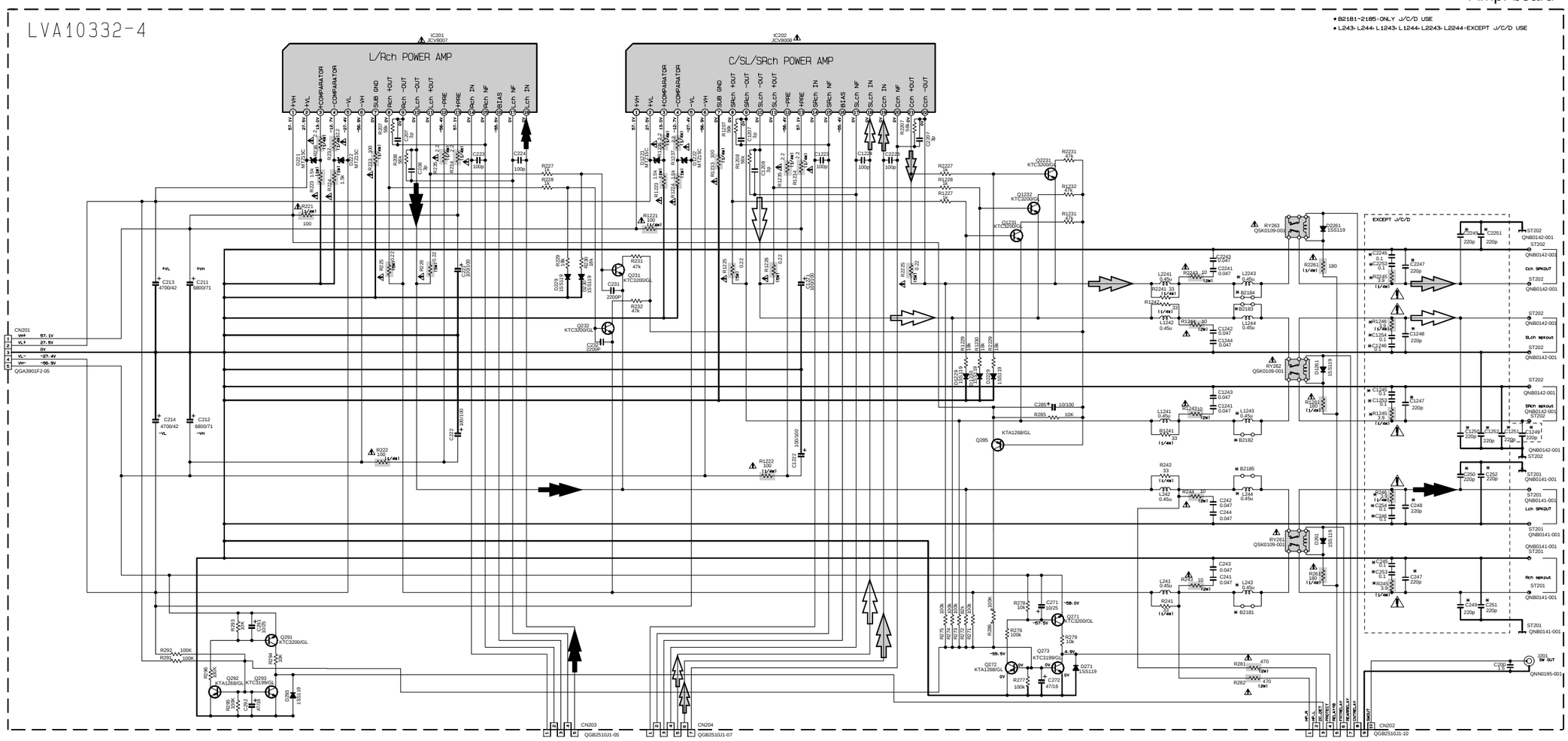
Front signal
Center signal
Surround signal
Audio signal
Video signal
Video audio signal
Digital audio signal

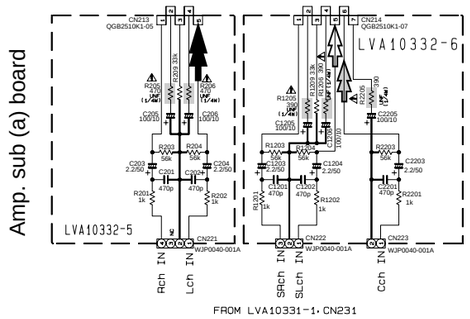
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

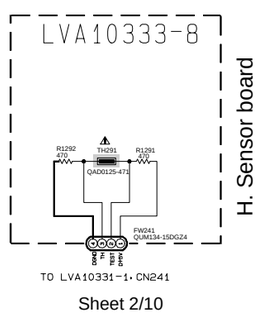
SHEET 2/10

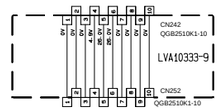
■ Amp. & Speaker terminal section

Amp. board









Front signal
Center signal
Surround signal

⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified.

■ FL display & System control section

FL board

LVA10333-1

FL DISPLAY
DX701
QLFD1021-001

PANEL MICOM
IC701
MN101C35DKF

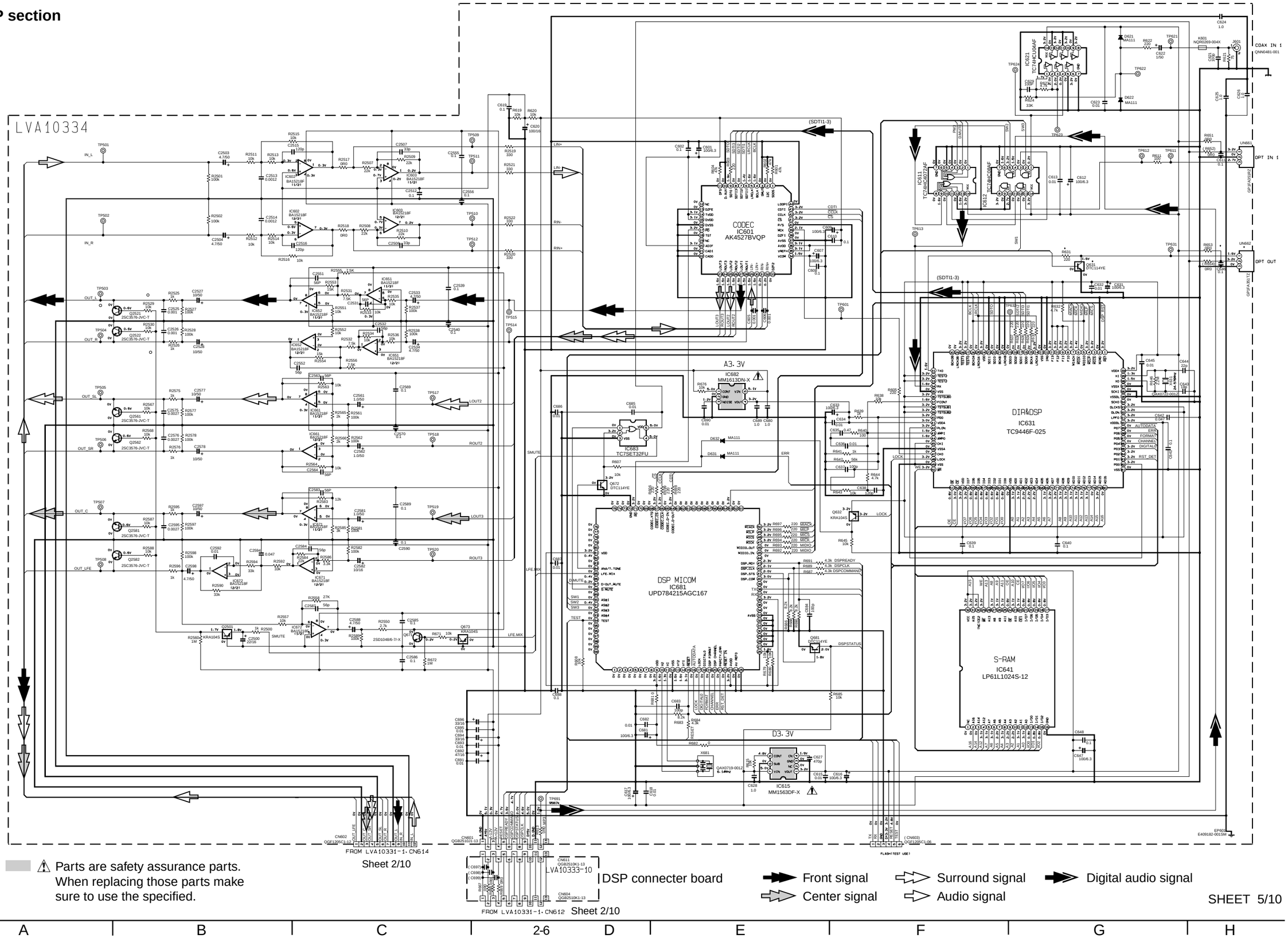
Power sw. board
LVA10333-5
POWER_ON/OFF
STAND-BY
LED board
LVA10333-4
Speaker sw. board
LVA10333-3
ANA/DIG
SURR ON/OFF
SURR MODE
Control board
LVA10333-2
CONT_R
CONT_D
CONT_U
CONT_L
MEMORY
ADJUST
SETTING

FROM LVA10331-1 CN114

Sheet 2/10

SHEET 4/10

■ DSP section

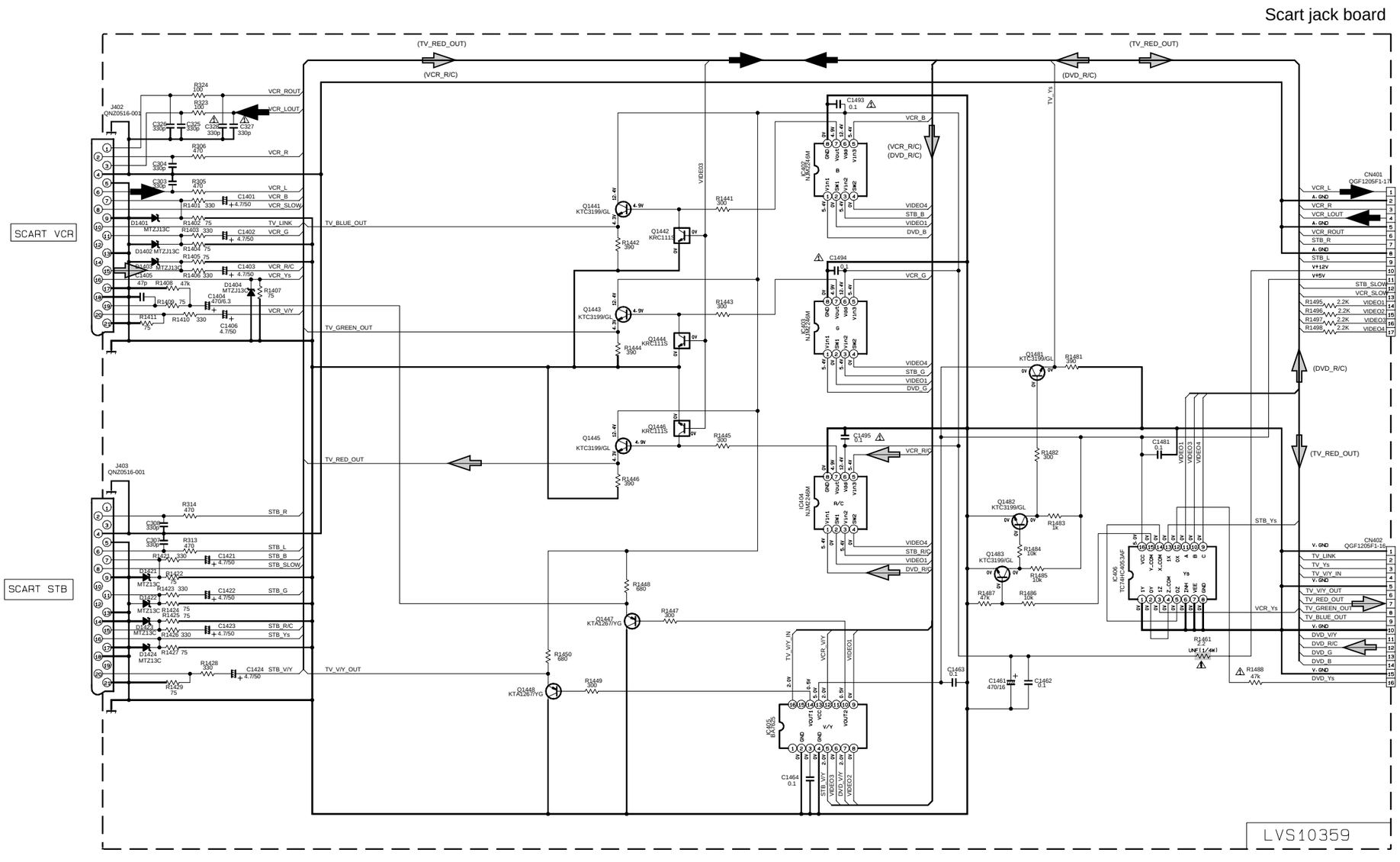


⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified.

Front signal
Center signal
Surround signal
Audio signal
Digital audio signal

SHEET 5/10

■ Video signal output section



CONTROL LOGIC

SOURCE	VIDEO1	VIDEO2	VIDEO3	VIDEO4
DVD	L	H	L	L
STB	H	H	L	L
VCR	H	L	L	H
TV	L	L	H	H
TAPE	H	H	H	H
FM/AM	H	H	H	H

Video signal

Video audio signal

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

SHEET 6/10

■ DVD System control section

LVA10298-B1(1/3)

IC101
AN8703FH-V
FRONT END PROCESSOR

IC301
MN103S26EGA
SDOC

IC401
MN102L62GLF2
or MN102L62GLF3
UNIT CPU

IC201
BA5983FM-X
DRIVER

IC251
BA6664FM-X
SP MOTOR DRIVER

IC451
S-93C66AFJ-X

TO DVD TRAVERSE MECHA ELM-V72-1C

TO DVD LOADER MECHA FLM-J1-2C

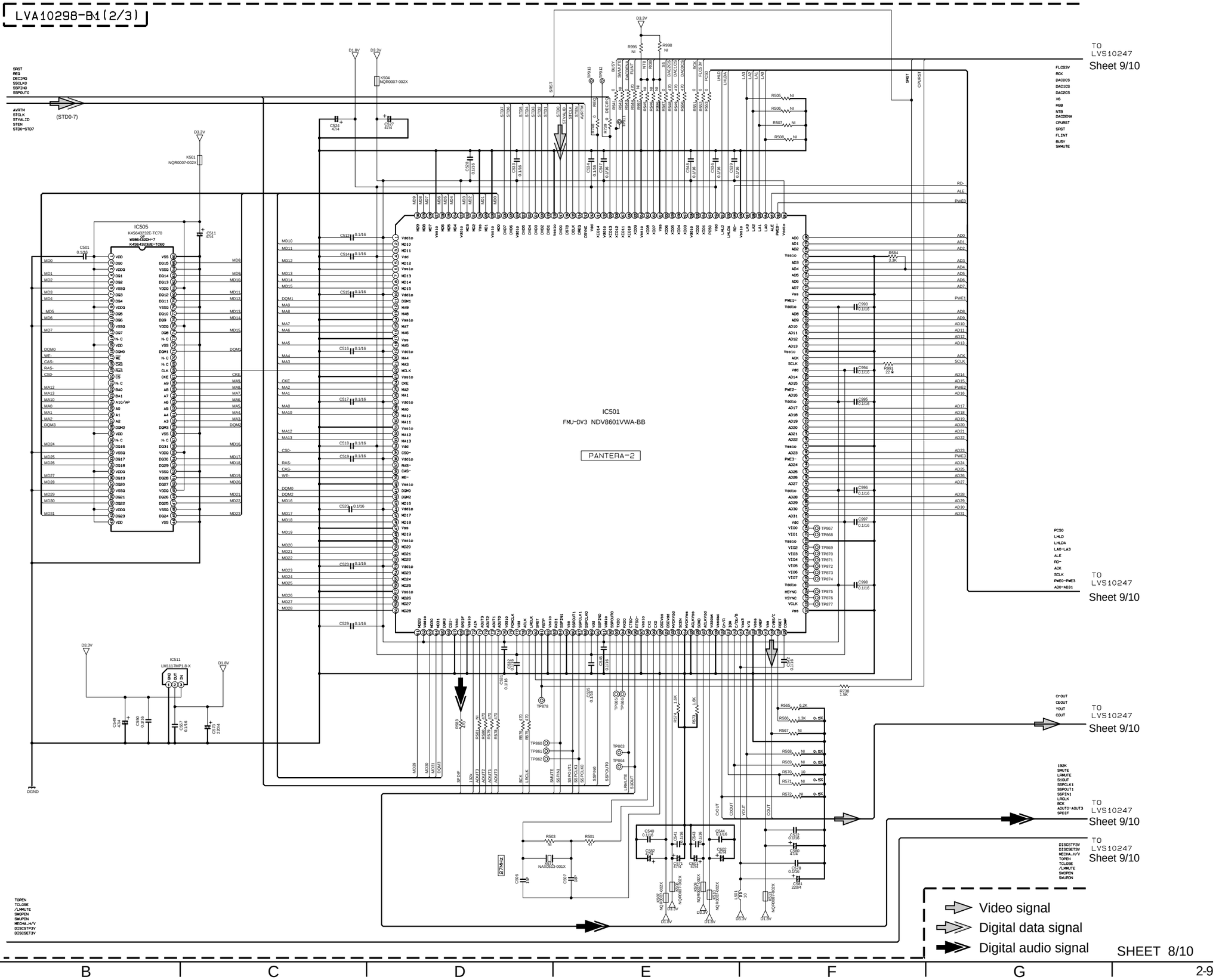
TO LVS10247 Sheet 8/10

MODEL FMU-DV5 ONLY

Digital data signal

■ DVD Servo section

LVA10298-BX(2/3)



■ DVD Memory section

LVA10298-B1(3/3)

TO LVS10247 Sheet 8/10

FLCS3V
RCK
DAC0CS
DAC1CS
DAC2CS
X6
RGB
NTB
DACDENA
CPURST
SRST
FLINT
SWMUTE
BUSY

FLASH ROM

IC509 SST39VF160-9CEK

IC508

IC512 74LCX373MTC-X

IC513 74LCX373MTC-X

IC521 MM74HCT32MTC-X

IC523 NC7SZ125P5-X

IC522 74LCX32MTC-X

IC510 AK93C65AF-X

Q501 2SB1424/QR/-X

Q502 2SC2412K/RS/-X

CN501 NI

CN502 QGB2027L1-26X

CN503 QGB2027L1-26X

TO LVS10247 Sheet 8/10

To CN512 Sheet 2/10

To CN513 Sheet 2/10

Video signal
Digital audio signal

SHEET 9/10

A B C 2-10 D E F G H

■ DVD Pin terminal voltage

IC101

NO	DC(V)	NO	DC(V)
1	0V	51	2.1V
2	4.4V	52	2.1V
3	3.7V	53	2.1V
4	4.4V	54	2.1V
5	0V	55	4.9V
6	1.7V	56	2.1V
7	1.7V	57	2.1V
8	1.9V	58	2.1V
9	3.3V	59	2.1V
10	0V	60	2.1V
11	3.3V	61	0V
12	3.3V	62	2.1V
13	3.3V	63	2.1V
14	3.3V	64	0V
15	0V		
16	1.7V		
17	1.5V		
18	1.7V		
19	1.7V		
20	0V		
21	1.7V		
22	0V		
23	1.7V		
24	0.9V		
25	1.7V		
26	0V		
27	0V		
28	4.9V		
29	1.7V		
30	0V		
31	0V		
32	0V		
33	0V		
34	0V		
35	0.9V		
36	3.3V		
37	1.3V		
38	0.9V		
39	3.3V		
40	3.3V		
41	1.7V		
42	1.7V		
43	1.7V		
44	1.0V		
45	1.7V		
46	2.1V		
47	2.1V		
48	2.1V		
49	2.1V		
50	2.1V		

IC201

NO	DC(V)
1	1.7V
2	1.7V
3	1.7V
4	1.7V
5	1.7V
6	1.7V
7	1.7V
8	0V
9	3.2V
10	5.0V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	4.3V
16	4.3V
17	4.3V
18	4.3V
19	9.2V
20	0V
21	0V
22	1.7V
23	1.7V
24	1.7V
25	0V
26	0V
27	1.7V
28	9.2V
29	1.7V
30	9.2V

IC251

NO	DC(V)
1	0.8V
2	0.8V
3	0.8V
4	0.8V
5	0V
6	0V
7	0.8V
8	0V
9	5.0V
10	5.0V
11	5.0V
12	5.0V
13	5.0V
14	5.0V
15	0V
16	0V
17	0V
18	0V
19	5.0V
20	5.0V
21	1.67V
22	1.67V
23	0V
24	3.3V
25	5.0V
26	0V
27	9.2V
28	9.2V
29	0V
30	0V

IC301

NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)
1	0V	51	3.3V	101	0.7V	151	0V
2	2.9V	52	3.3V	102	0V	152	1.7V
3	3.3V	53	——	103	1.4V	153	0V
4	0V	54	——	104	2.1V	154	1.7V
5	3.3V	55	——	105	——	155	0V
6	3.3V	56	——	106	1.7V	156	3.3V
7	——	57	3.3V	107	0.7V	157	0V
8	0V	58	1.7V	108	0.7V	158	0V
9	0V	59	0V	109	3.3V	159	0V
10	0V	60	0V	110	1.7V	160	0V
11	3.3V	61	——	111	1.7V	161	0V
12	3.3V	62	——	112	0V	162	3.3V
13	3.3V	63	——	113	0V	163	0V
14	0V	64	——	114	1.7V	164	0V
15	1.4V	65	1.7V	115	1.7V	165	0V
16	0.3V	66	1.7V	116	3.3V	166	0V
17	1.4V	67	1.7V	117	1.7V	167	0V
18	1.7V	68	1.7V	118	1.7V	168	0V
19	0V	69	3.3V	119	1.7V	169	3.3V
20	1.7V	70	——	120	1.7V	170	0V
21	0V	71	——	121	2.1V	171	0V
22	2.2V	72	——	122	1.7V	172	3.3V
23	2.2V	73	——	123	2.1V	173	0V
24	1.7V	74	——	124	——	174	4.9V
25	1.5V	75	——	125	3.3V	175	4.9V
26	1.5V	76	1.7V	126	0V	176	3.3V
27	1.5V	77	0V	127	0V		
28	1.5V	78	3.3V	128	0V		
29	1.5V	79	1.7V	129	0V		
30	0.5V	80	——	130	0V		
31	3.3V	81	0V	131	3.3V		
32	0V	82	0.8V	132	0V		
33	3.3V	83	2.1V	133	0V		
34	3.3V	84	1.7V	134	0V		
35	3.3V	85	0V	135	0V		
36	3.3V	86	——	136	1.7V		
37	0V	87	——	137	3.3V		
38	0V	88	3.3V	138	0V		
39	0V	89	0V	139	3.3V		
40	0V	90	1.7V	140	0V		
41	0V	91	——	141	0V		
42	0V	92	——	142	0V		
43	1.0V	93	1.7V	143	3.3V		
44	0V	94	0V	144	0V		
45	——	95	——	145	——		
46	0V	96	1.7V	146	1.7V		
47	3.3V	97	1.7V	147	3.3V		
48	0V	98	——	148	——		
49	——	99	3.3V	149	0V		
50	——	100	0.7V	150	0V		

IC401

NO	DC(V)	NO	DC(V)
1	3.3V	51	——
2	3.3V	52	0V
3	0V	53	3.3V
4	3.3V	54	3.3V
5	——	55	3.3V
6	3.3V	56	3.3V
7	——	57	——
8	0V	58	3.3V
9	3.3V	59	0V
10	0V	60	——
11	3.3V	61	0V
12	3.3V	62	0V
13	1.5V	63	0V
14	1.5V	64	0V
15	1.5V	65	0V
16	1.5V	66	3.3V
17	3.3V	67	3.3V
18	——	68	0V
19	0V	69	3.3V
20	0V	70	3.3V
21	——	71	0V
22	3.3V	72	3.3V
23	1.7V	73	3.3V
24	1.7V	74	3.3V
25	5.0V	75	3.3V
26	3.3V	76	3.3V
27	0V	77	0V
28	3.3V	78	0V
29	3.3V	79	0V
30	3.3V	80	0V
31	3.3V	81	3.3V
32	0V	82	3.3V
33	3.3V	83	3.3V
34	3.3V	84	3.3V
35	0V	85	3.3V
36	3.3V	86	3.3V
37	3.3V	87	3.3V
38	3.3V	88	3.3V
39	0V	89	3.3V
40	0V	90	3.3V
41	——	91	3.3V
42	——	92	0V
43	0V	93	0V
44	——	94	0V
45	3.3V	95	0V
46	0V	96	0V
47	0V	97	0V
48	3.3V	98	0V
49	3.3V	99	0V
50	3.3V	100	0V

IC451

NO	DC(V)
1	0V
2	3.2V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V

IC501

NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)
1	3.2V	53	3.2V	105	0V	157	0V	209	0V
2	0.5V	54	0.4V	106	0V	158	0V	210	3.2V
3	0.4V	55	0.4V	107	3.2V	159	1.7V	211	0V
4	1.8V	56	0.4V	108	1.7V	160	1.7V	212	1.7V
5	0.4V	57	0V	109	0V	161	3.2V	213	3.2V
6	0V	58	0.4V	110	0V	162	0V	214	3.2V
7	0.4V	59	0.4V	111	1.0V	163	0V	215	0V
8	0.4V	60	0.4V	112	1.0V	164	0V	216	0V
9	0V	61	0.5V	113	3.1V	165	0V	217	3.2V
10	3.2V	62	3.2V	114	0.4V	166	0V	218	0V
11	0V	63	0.5V	115	0.4V	167	0V	219	3.2V
12	0V	64	3.2V	116	——	168	0V	220	3.2V
13	0V	65	1.0V	117	3.1V	169	3.2V	221	0V
14	0V	66	——	118	0.8V	170	3.2V	222	3.2V
15	2.0V	67	0V	119	1.3V	171	0V	223	3.2V
16	1.3V	68	1.7V	120	1.8V	172	0V	224	3.2V
17	0V	69	0V	121	0V	173	0V	225	0V
18	0.4V	70	3.2V	122	0V	174	0V	226	0V
19	3.2V	71	0V	123	0V	175	0V	227	0.8V
20	1.4V	72	0V	124	0V	176	0V	228	0V
21	1.7V	73	0V	125	3.2V	177	0V	229	0.8V
22	1.7V	74	0V	126	0V	178	0V	230	0V
23	0V	75	3.2V	127	0V	179	0V	231	0.8V
24	3.2V	76	——	128	0V	180	0V	232	0.6V
25	0.5V	77	1.7V	129	0V	181	3.2V	233	3.2V
26	2.5V	78	1.7V	130	0V	182	3.2V	234	0.6V
27	3.2V	79	1.7V	131	0V	183	0V	235	0.8V
28	1.2V	80	0V	132	0V	184	0V	236	1.0V
29	0V	81	0V	133	0V	185	3.2V	237	0V
30	0V	82	0V	134	0V	186	0V	238	0.4V
31	0V	83	3.2V	135	1.8V	187	0V	239	0.8V
32	2.0V	84	0.4V	136	0V	188	0V	240	0.8V
33	1.3V	85	0V	137	0V	189	3.2V		
34	1.7V	86	3.2V	138	0V	190	0V		
35	2.2V	87	0V	139	0V	191	0V		
36	3.1V	88	1.7V	140	3.2V	192	1.7V		
37	3.2V	89	0V	141	0V	193	3.2V		
38	0V	90	0V	142	0V	194	3.2V		
39	3.2V	91	1.2V	143	0V	195	0V		
40	0V	92	0V	144	0V	196	3.2V		
41	0V	93	0V	145	3.2V	197	3.2V		
42	0V	94	0.6V	146	0V	198	3.2V		
43	0.7V	95	0V	147	0V	199	3.2V		
44	3.2V	96	0V	148	0V	200	3.2V		
45	0.7V	97	0V	149	0V	201	0V		
46	0.5V	98	1.7V	150	0V	202	3.2V		
47	0V	99	——	151	0V	203	3.2V		
48	0.5V	100	——	152	0V	204	0V		
49	0V	101	1.7V	153	0V	205	4.9V		
50	0.4V	102	3.2V	154	3.2V	206	3.2V		
51	0.4V	103	0V	155	0V	207	0V		
52	0.4V	104	0V	156	3.2V	208	3.2V		

IC502

NO	DC(V)
1	1.5V
2	3.3V
3	1.7V
4	0V
5	1.7V
6	1.7V
7	1.7V
8	1.7V

IC505

NO	DC(V)	NO	DC(V)
1	3.2V	51	0.5V
2	0.8V	52	0V
3	3.2V	53	0.5V
4	0.8V	54	0.7V
5	0.8V	55	3.2V
6	0V	56	0.7V
7	0.6V	57	0.6V
8	0.6V	58	0V
9	3.2V	59	0V
10	0.8V	60	1.7V
11	1.0V	61	1.4V
12	0V	62	0.4V
13	0.4V	63	1.3V
14	——	64	1.3V
15	3.2V	65	2.0V
16	0V	66	0V
17	3.2V	67	3.2V
18	0V	68	1.7V
19	3.2V	69	——
20	2.2V	70	——
21	——	71	0V
22	2.0V	72	0V
23	1.3V	73	——
24	0V	74	0V
25	1.2V	75	3.2V
26	2.5V	76	0.4V
27	0.5V	77	0.4V
28	1.0V	78	0V
29	3.2V	79	0V
30	——	80	0.4V
31	0.4V	81	3.2V
32	0V	82	0.5V
33	0.4V	83	0.8V
34	0.4V	84	0V
35	3.2V	85	0.8V
36	0.4V	86	0V
37	0.4V	87	
38	0V	88	
39	0.5V	89	
40	0.5V	90	
41	3.2V	91	
42	3.2V	92	
43	3.2V	93	
44	0V	94	
45	0.4V	95	
46	0V	96	
47	0.4V	97	
48	0.4V	98	
49	3.2V	99	
50	0.4V	100	

IC509

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	——
11	3.2V
12	0V
13	——
14	——
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V
21	0V
22	0V
23	0V
24	3.2V
25	0V
26	3.2V
27	0V
28	3.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	0V
37	3.2V
38	0V
39	0V
40	0V
41	0V
42	0V
43	0V
44	0V
45	0V
46	0V
47	0V
48	0V

IC510

NO	DC(V)
1	0V
2	3.2V
3	0V
4	3.2V
5	3.2V
6	3.2V
7	0V
8	0V

IC511

NO	DC(V)
1	0V
2	1.8V
3	3.2V

IC512

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	3.2V

IC513

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	3.2V

IC521

NO	DC(V)
1	3.2V
2	0V
3	5.0V
4	3.2V
5	0V
6	5.0V
7	0V
8	5.0V
9	0V
10	3.2V
11	5.0V
12	0V
13	3.2V
14	5.0V

IC522

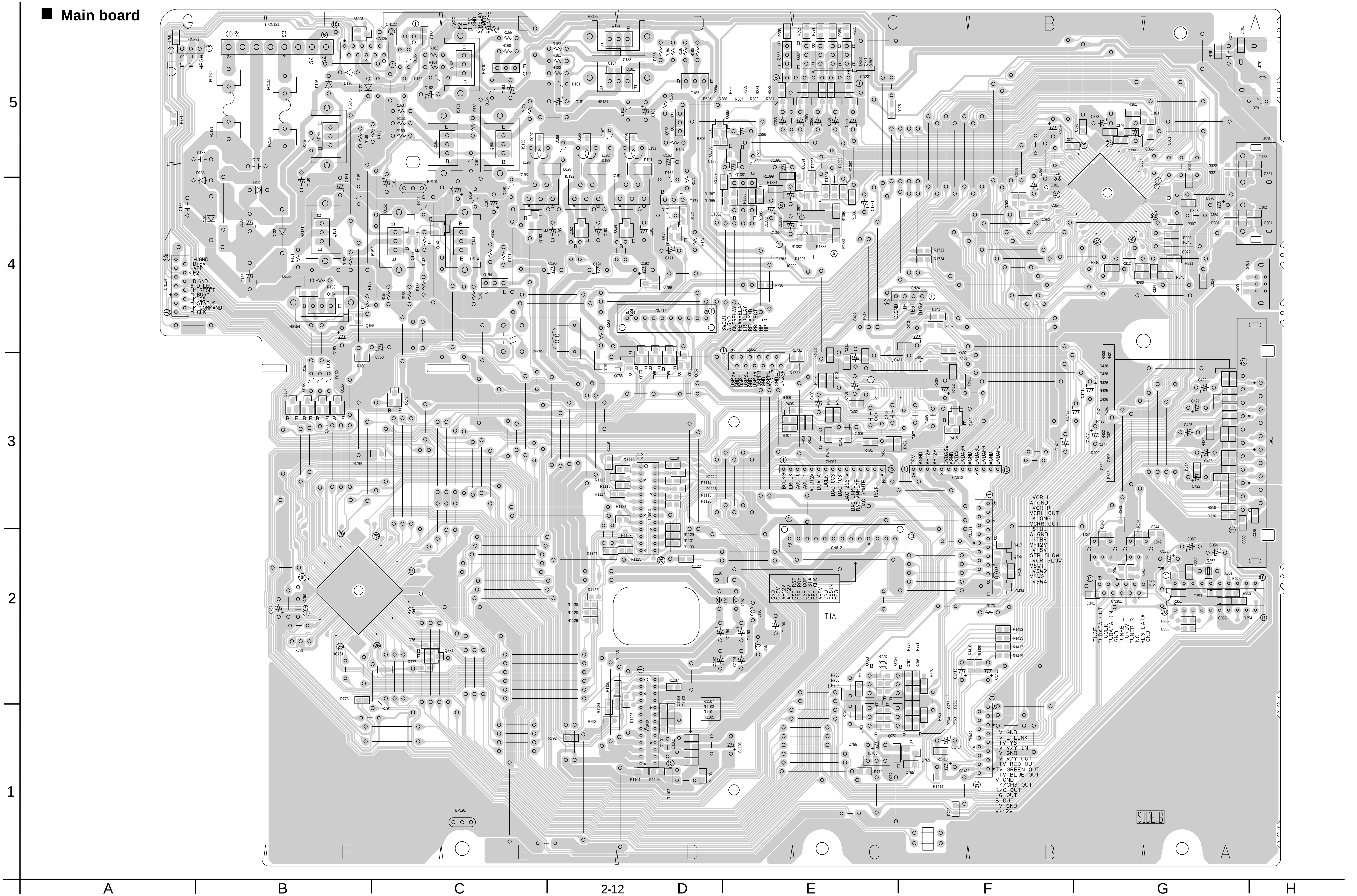
NO	DC(V)
1	3.2V
2	3.2V
3	3.2V
4	3.2V
5	3.2V
6	3.2V
7	0V
8	0V
9	3.2V
10	3.2V
11	3.2V
12	0V
13	5.0V
14	3.2V

NOTES

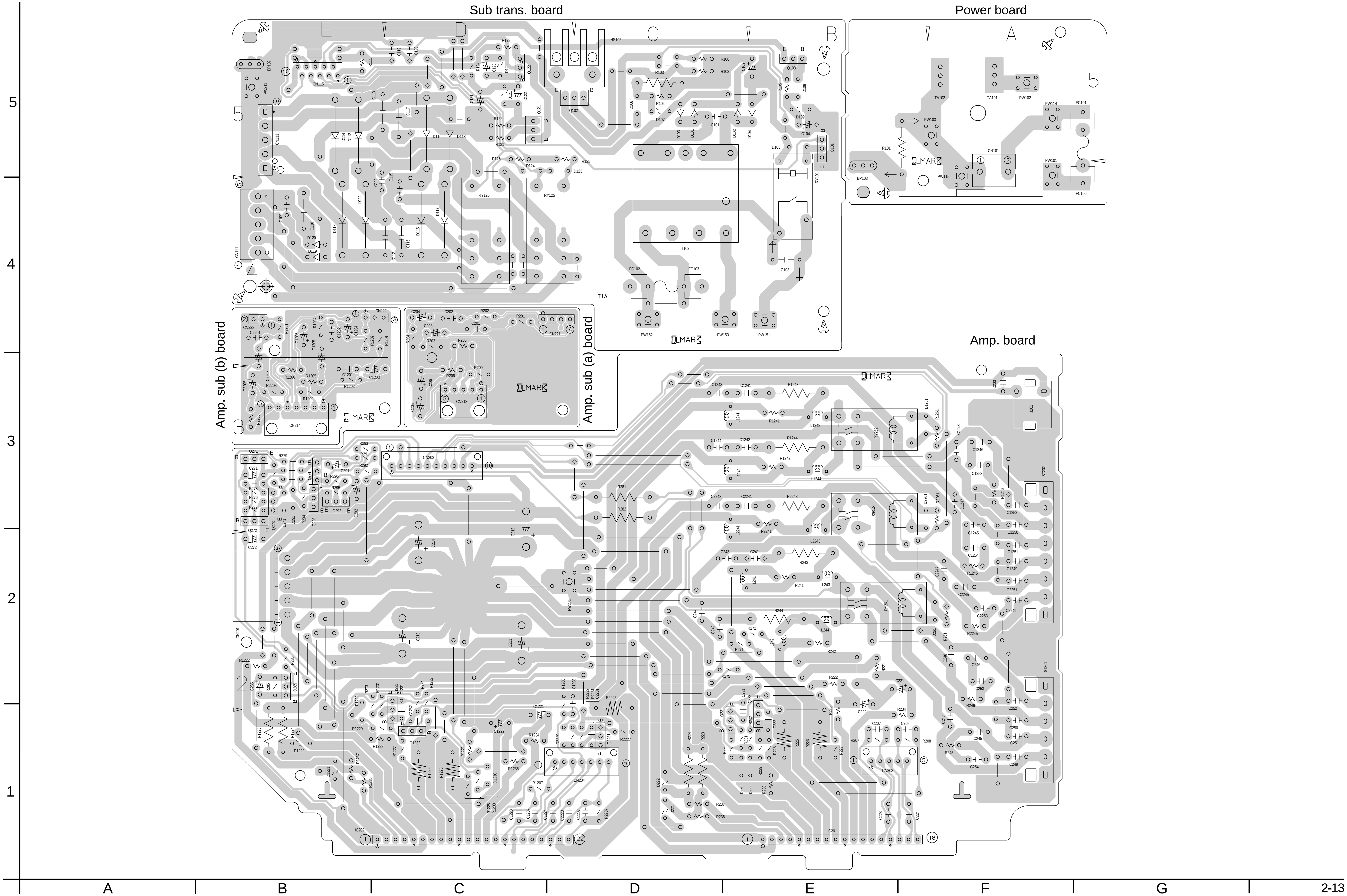
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- POWER ON DVD STOP

Printed circuit boards

■ Main board



■ Amplifier / power supply board



■ Front board

FL board

H. Sensor board

LED board

Power sw. board

Control board

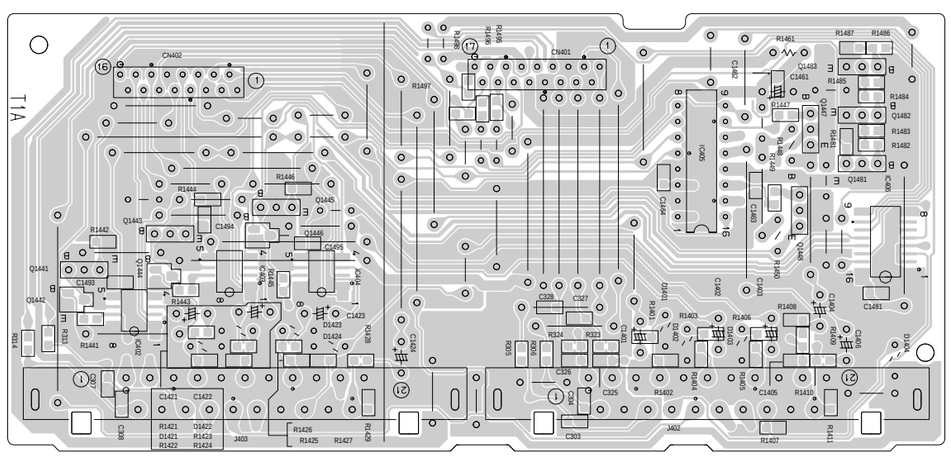
Amp. connecter board

H.P. board

Speaker sw. board

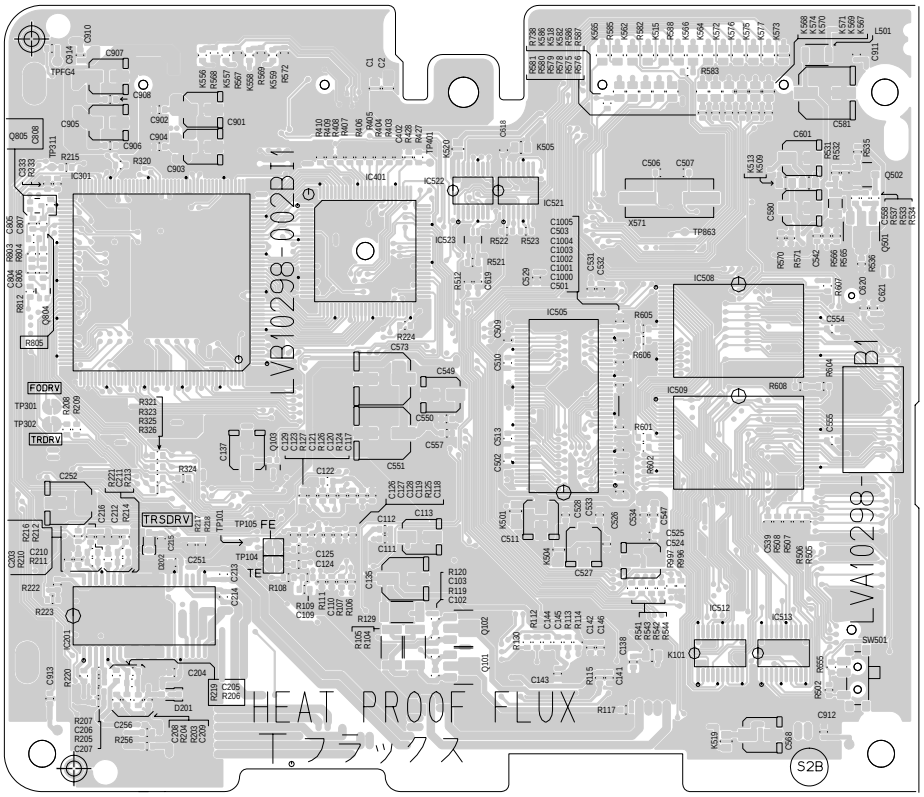
DSP connecter board

■ Scart jack board

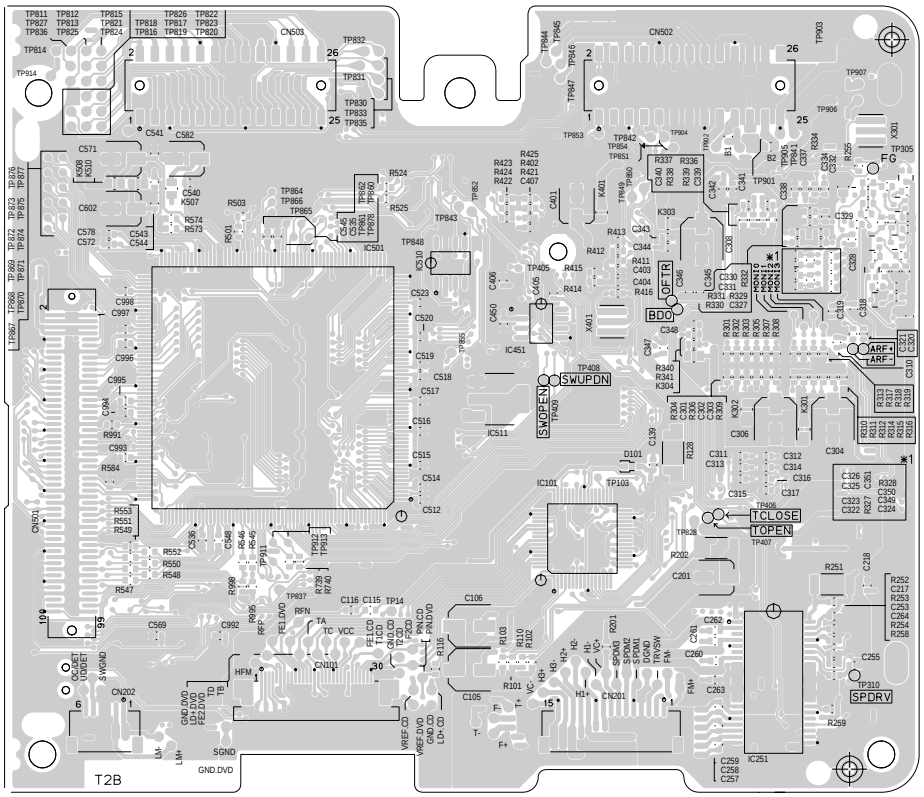


■ DVD board

Forward side

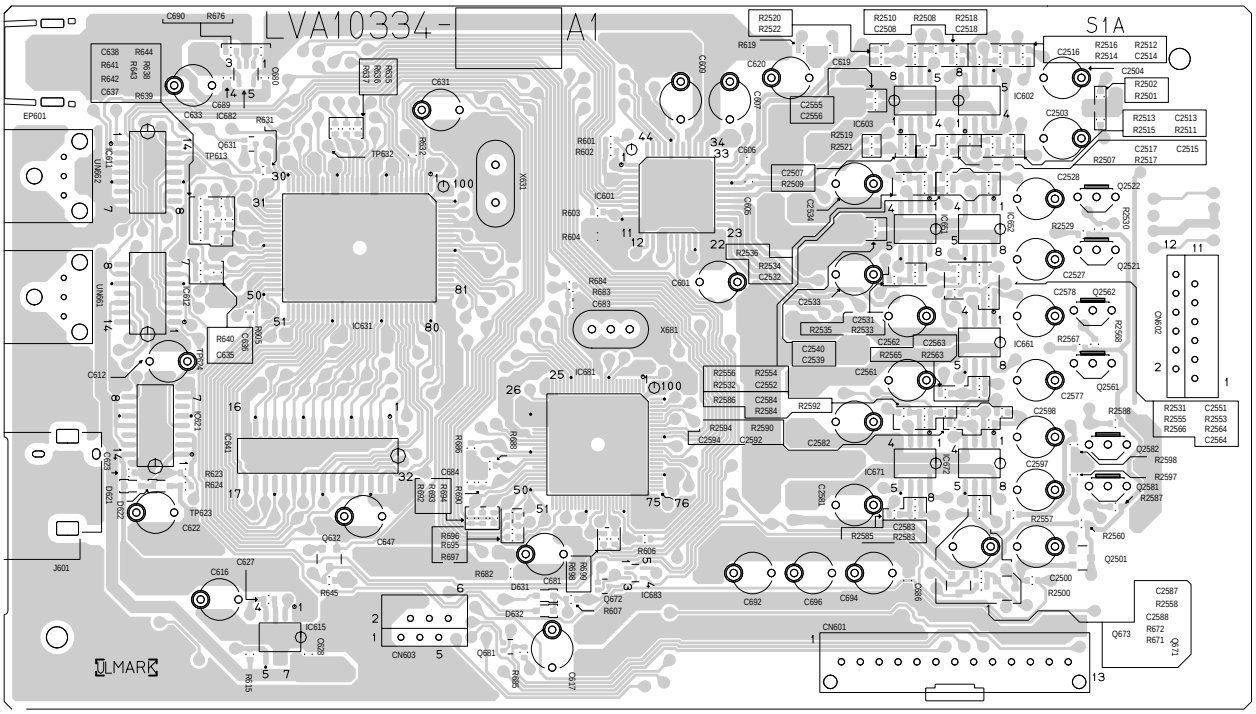


Reverse side

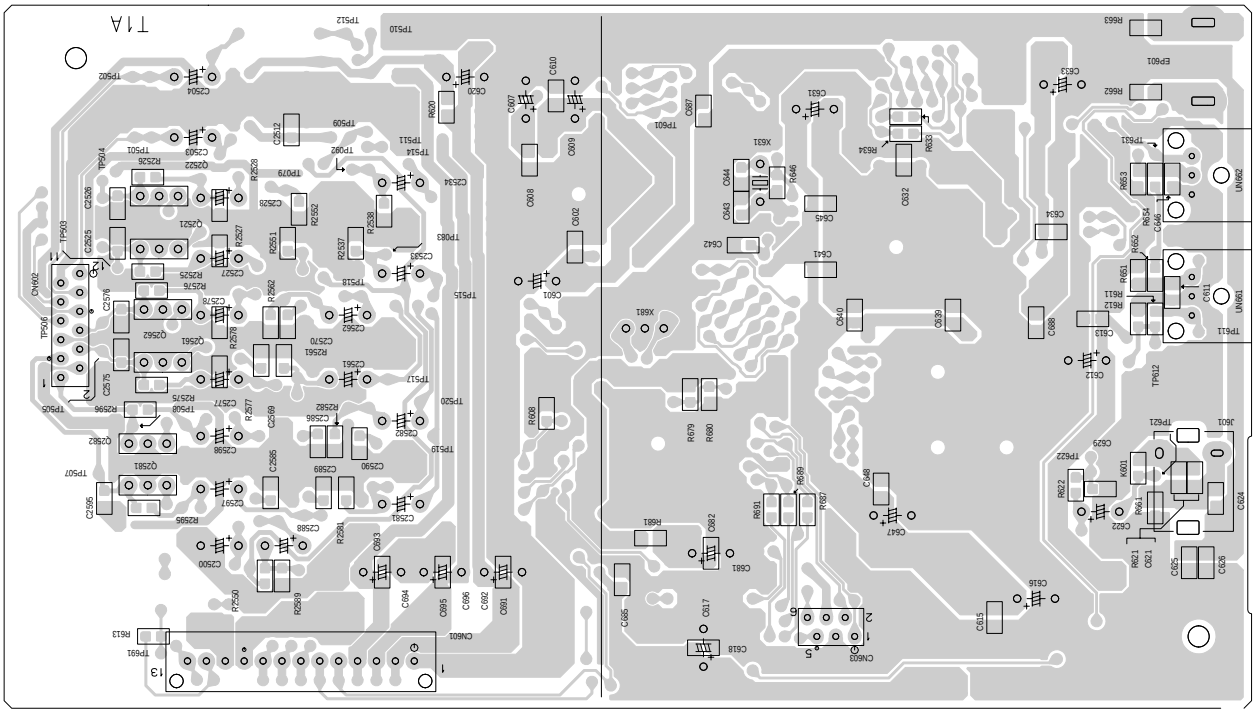


■ DSP board

Forward side



Reverse side



< MEMO >

RX-DV3RSL

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMMUNICATION BUSINESS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

No.21154SCH

Printed in Japan
200210

PARTS LIST

[RX-DV3RSL]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

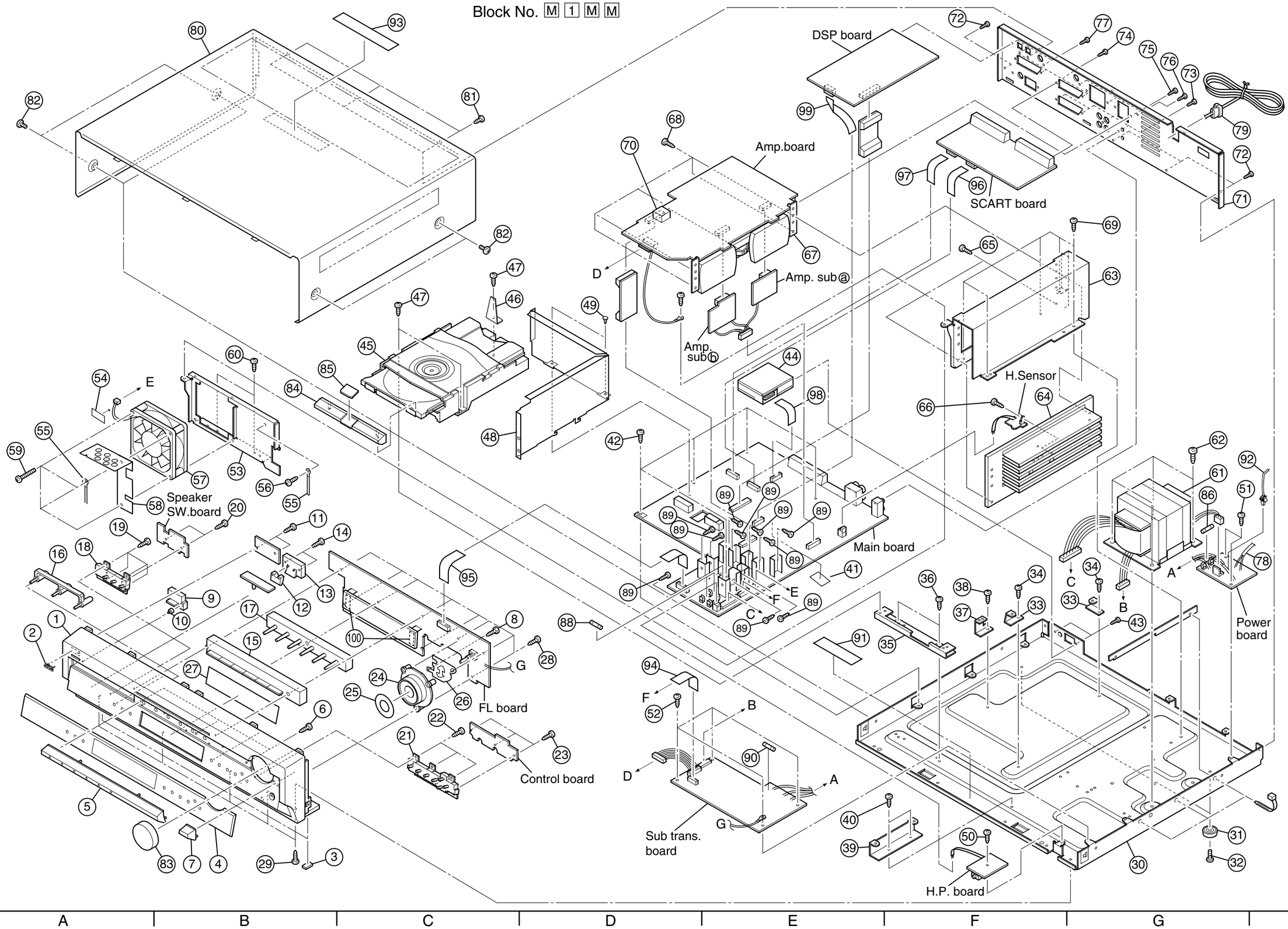
- Contents -

Exploded view of general assembly and parts list (Block No.M1) -------- 3- 3
DVD mechanism assembly and parts list (Block No.MJ) ---------- 3- 6
DVD loading base assembly and parts list (Block No.MN) ---------- 3- 8
Electrical parts list (Block No.01~06) ---------- 3-10
Packing materials and accessories parts list (Block No.M3,M5) ---------- 3-27

< M E M O >

Exploded view of general assembly and parts list

Block No. M 1 M M



■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10652-003A	FRONT PANEL	1		
	2	VJD5429-002SS	JVC MARK	1		
	3	E75896-003	FELT SPACER	2	FRONT FOOT	
	4	LV21214-012A	LENS	1		
	5	LV33427-002A	ORNAMENT(L)	1		
	6	QYSDSF2608Z	SCREW	3	(L)+F.PANEL	
	7	LV33428-002A	ORNAMENT(R)	1		
	8	QYSDSF2608Z	SCREW	1	(R)+F.PANEL	
	9	LV33426-003A	PUSH BUTTON(PO)	1		
	10	VJK4493-001SC	LENS(STANDBY)	1		
	11	QYSDSF2608Z	SCREW	2	P.B.PWB+F.P	
	12	LV42877-002A	INDICATOR LENS	1		
	13	LV33434-002A	LENS HOLDER	1		
	14	QYSDSF2608Z	SCREW	2	LED PWB+F.P	
	15	LV21216-003A	PUSH BUTTON(SO)	1		
	16	LV42889-001A	INDICATAR	1	DV3RSL,5RSL	
	17	LV33425-001A	PUSH BUTTON(PL)	1		
	18	LV33423-002A	PUSH BUTTON(DS)	1		
	19	QYSDSF2608Z	SCREW	4	P.BTN+F.P	
	20	QYSDSF2608Z	SCREW	2	DSP PWB+P.BTN	
	21	LV21215-002A	PUSH BUTTON(CO)	1		
	22	QYSDSF2608Z	SCREW	3	P.BTN+F.P	
	23	QYSDSF2608Z	SCREW	3	CONT.PWB+BTN	
	24	LV33433-002A	VOL.RING	1		
	25	LV42880-001A	VOL.SHEET	1		
	26	LV43217-001A	VOL.SHIELD	1		
	27	LV42851-005A	FL SCREEN	1		
	28	QYSDSF2608Z	SCREW	8	FL PWB+F.P	
	29	QYSBSG3008N	T.SCREW	5	F.P+CHA.BASE	
	30	LV10653-002A	CHASSIS BASE	1		
	31	E47227-021	FOOT ASS'Y	2		
	32	QYSBSG3008Z	T.SCREW	2	FOOT+CHA.BASE	
	33	LV41548-001A-NK	C.B BKT	2		
	34	QYSBST3006Z	T.SCREW	2	C.B.BKT+C.BASE	
	35	LV33431-001A	MECHA BKT(F)	1		
	36	QYSBST3006Z	T.SCREW	2	M.BKT(F)+C.BASE	
	37	LV42879-001A	MECHA BKT(R)	1		
	38	QYSBST3006Z	T.SCREW	1	M.BKT(R)+C.BASE	
	39	LV33429-001A	C.B BKT	1		
	40	QYSBST3006Z	T.SCREW	2	C.B.BKT+ C.BASE	
	41	LV30225-0B6A	SPACER	1		
	42	QYSBST3006E	T.SCREW	5	MOTHER+CH.BASE	
	43	QYSBSGY3008M	SPECIAL SCREW	2	TUNER P +CH.BAS	
	44	QAU0278-001	TUNER	1	TUNER PACK	
	45	----------	SINGLE DVD MODU	1		
	46	LE40874-002A	THRUST SPRING	1		
	47	QYSBST3010Z	T.SCREW	3	DVD MECHA+M.BKT	
	48	LV21222-002A	BARRIER	1	PC	

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	49	FMYH4004-001	PLASTIC RIVET	2	BARRIER+MOTHER	
	50	QYSBSGG3008Z	TAP.SCREW	1	H.P PWB+CH.B	
	51	QYSBSG3006Z	T.SCREW	2	P.CODE PWB+CH.B	
	52	QYSBSG3006Z	T.SCREW	4	S.TRANS PWB+CH.	
	53	LV21220-001A	FAN BRACKET	1		
	54	LV30225-0F6A	SPACER	1		
	55	VKZ4001-111S	WIRE CLAMP	2		
	56	QYSBST3006Z	T.SCREW	1		
	57	QAR0244-001	FAN MOTER	1		
	58	LV33801-001A	WIRE HOLDER	1		
	59	QYSBSG3030Z	T.SCREW	4	FAN+FAN BKT	
	60	QYSBST3006Z	T.SCREW	2	FAN BKT+CH.B	
⚠	61	QQT0371-004	POWER TRANS	1		
	62	QYSDST4008Z	SPECIAL SCREW	4	TRANS+CH.B	
	63	LV21219-001A	H.SINK BKT	1		
	64	LV21218-002A-NK	HEAT SINK	1		
	65	QYSBSG3008Z	T.SCREW	2	H.SINK+H.S.BKT	
	66	QYSBSG3008Z	T.SCREW	1	H.SENSOR+H.S	
	67	LV33430-001A	IC BKT	1		
	68	QYSBSG3008Z	T.SCREW	5	IC BKT+H.S.	
	69	QYSBST3006Z	T.SCREW	5	H.S.BKT+CH.B	
	70	LV30225-0F9A	SPACER	1		
	71	LV21221-022A	REAR PANEL	1		
	72	QYSBSGY3008E	SPECIAL SCREW	4	R.PANEL+CH.B	
	73	QYSBSGY3008E	SPECIAL SCREW	4	R.PANEL+MOTHER	
	74	QYSBSGY3008E	SPECIAL SCREW	4	R.PANEL+SCART	
	75	QYSBSGY3008E	SPECIAL SCREW	5	R.PANEL+AMP PWB	
	76	QYSBSGY3008E	SPECIAL SCREW	1	R.PANEL+H.S.BKT	
	77	QYSBSGY3008E	SPECIAL SCREW	4	R.PANEL+DSP PWB	
⚠	78	QMPN100-200-JD	POWER CORD	1		B
		QMPK250-205-JV	POWER CORD	1		E,EN
⚠	79	QZW0033-001	STRAIN RELIEF	1		
	80	LV20962-003A-NK	TOP COVER	1	002A=B 003A=S	
	81	QYSBSGY3008E	SPECIAL SCREW	3	TOP+P.PANEL	
	82	E406308-004	SPECIAL SCREW	4	TOP SIDE	
	83	LV33432-002A	VOL.KNOB	1		
	84	LV21217-002A	TRAY FITTING	1		
	85	LV42878-006A	FITTING LENS	1	DVD VIDEO	
⚠	86	QMF51W2-2R0-J8	FUSE	1	F101	
⚠	88	QMF51W2-2R0-J8	FUSE	2	F121 F132	
	89	QYSBSG3006E	T.SCREW	10		
⚠	90	QMF51E2-R10-J1	FUSE	1	F102	
	91	LV41843-002A	LASER CAUTION	1		
	92	E307572-001	FASTENER	1		
	93	E409396-003	CAUTION LABEL	1		
	94	QUQ412-1015CJ	FFC WIRE	1	CHIBITORA TO MO	
	95	QUQ412-1328CJ	FFC WIRE	1	FL TO MOTHER	

■ Parts list (General assembly)

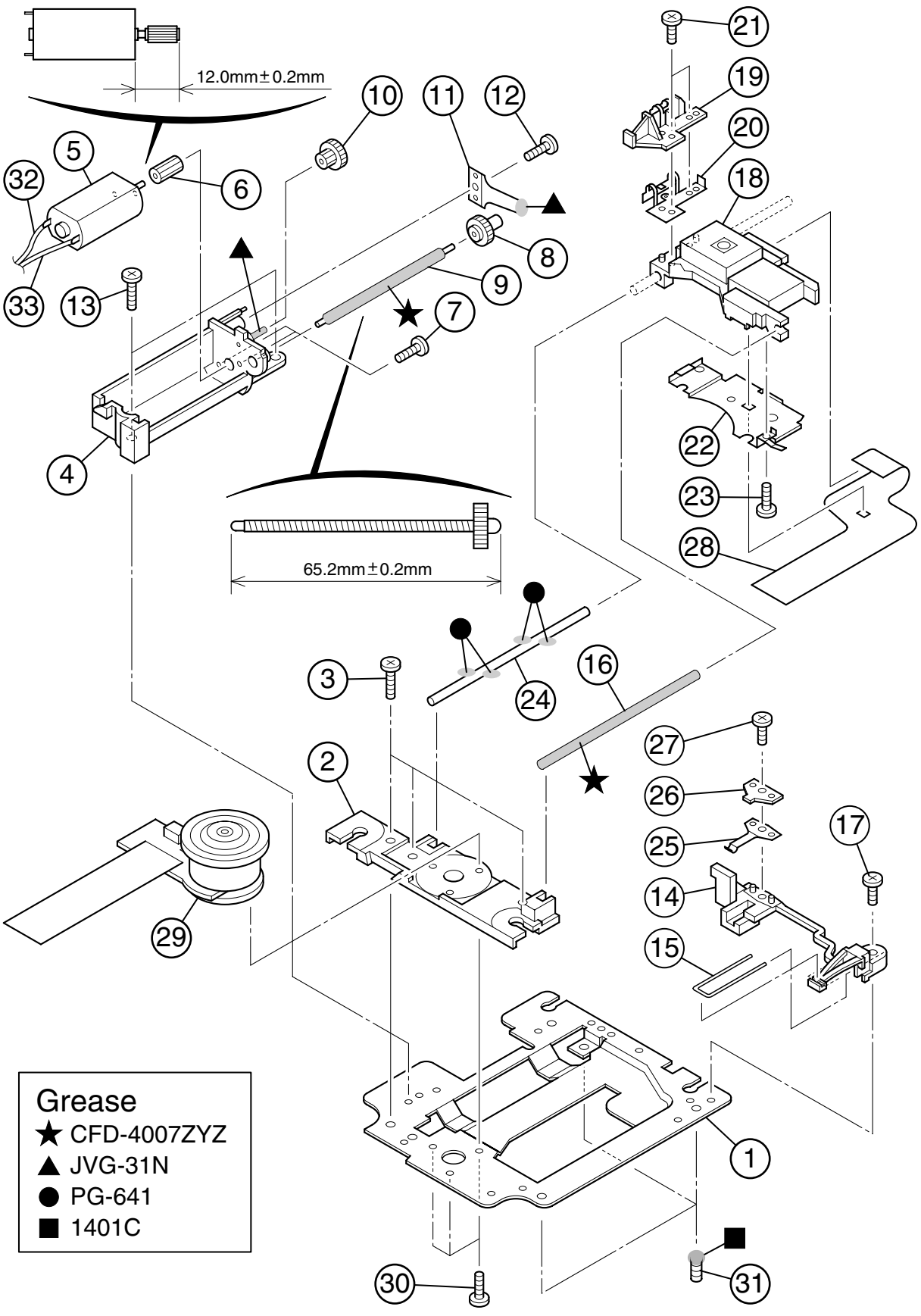
Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	96	QUQ412-1706CJ	FFC WIRE	1	SCART TO MOTHER	
	97	QUQ412-1606CJ	FFC WIRE	1	SCART TO MOTHER	
	98	QUQ412-1106CJ	FFC WIRE	1	TUNER TO MOTHER	
	99	QUQ412-1217CJ	FFC WIRE	1	DSP TO MOTHER	
	100	E3400-431	SPACER	2		

DVD mechanism assembly and parts list

Block No. M J M M

EXL-V72-1YPC



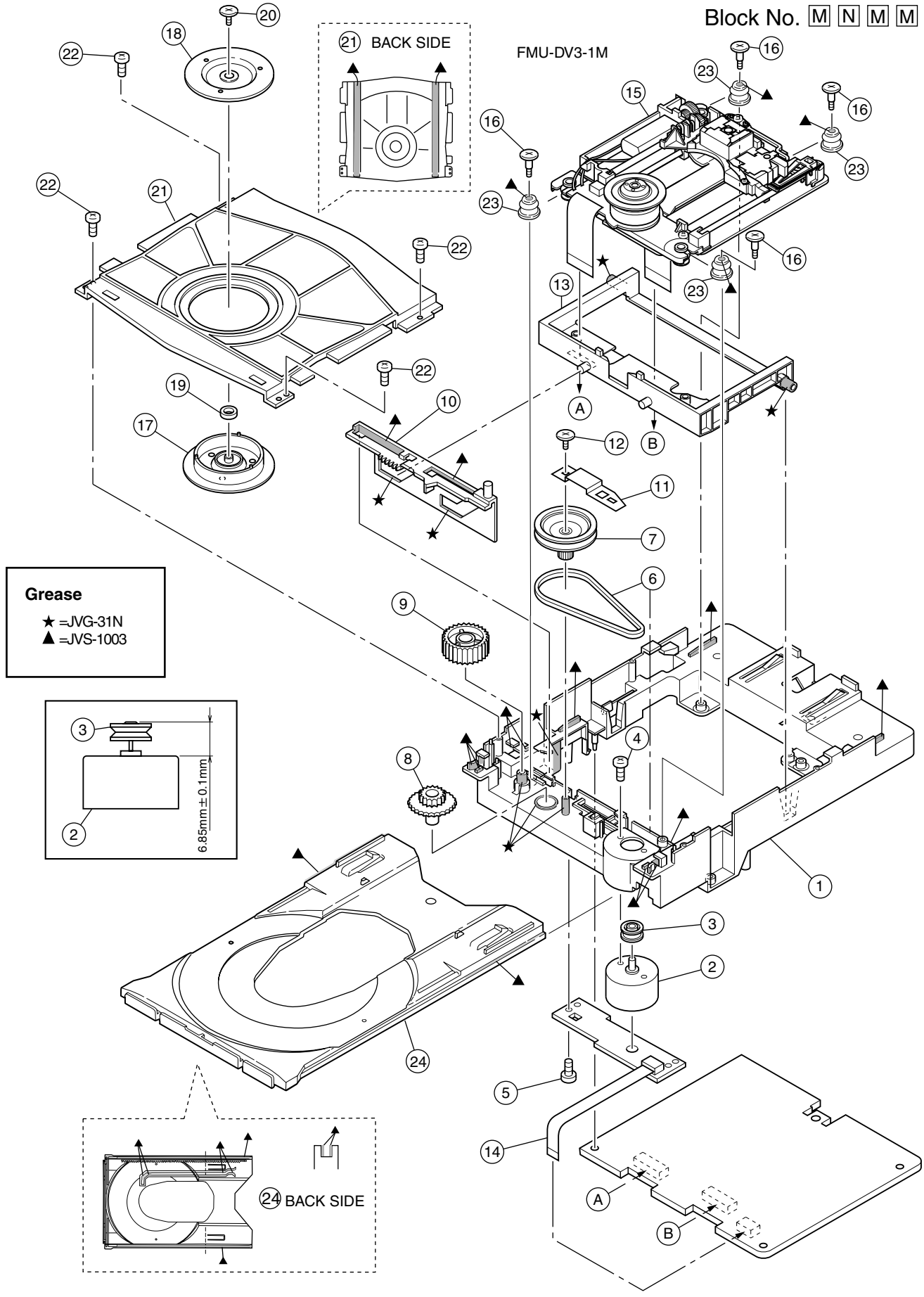
■ Parts list (DVD mechanism)

Block No. MJMM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LE20520-002A	MECHA.BASE	1		
	2	LE20516-001A	SPINDLE BASE	1		
	3	QYSDST2605M	SCREW	3		
	4	LE30909-001A	FEED HOLDER ASS	1		
	5	QAR0165-001	FEED MOTOR	1		
	6	LV41510-001A	FEED GEAR T	1		
	7	QYSPSPU2040M	SCREW	2		
	8	LV41512-001A	FEED GEAR E	1		
	9	LV41517-003A	LEAD SCREW	1		
	10	LV41511-002A	FEED GEAR M	1		
	11	LE40742-001A	THRUST SPRING	1		
	12	QYSDSF2005Z	SCREW	1		
	13	QYSDST2605M	SCREW	2		
	14	LE20517-001A	SHAFT HOLDER	1		
	15	LE40744-001A	BAR SPRING(1)	1		
	16	LV41121-002A	SHAFT	1		
	17	QYSDST2605M	SCREW	1		
	18	QAL0342-001	PICK UP	1		
	19	LE20519-001A	SW.ACTUATOR	1		
	20	LE30886-001A	LEAD SPRING	1		
	21	QYSPSFU1740Z	SCREW	2		
	22	LE30888-003A	P.U.SPRING	1		
	23	QYSPSGU1430Z	SCREW	1		
	24	LV41121-002A	SHAFT	1		
	25	LE40743-001A	T.SPRING(S)	1		
	26	LE40774-001A	PLATE	1		
	27	QYSDST2606Z	SCREW	1		
	28	QAL0284-001	FPC	1		
	29	QAR0241-001	SPINDLE MOTOR	1		
	30	QYSPSPU1760Z	SCREW	3		
	31	QYYASPF2608N	HEX SCREW	3		
	32	QUB549-05A1A1	SIN TWIST WIRE	1		
	33	QUB544-05A1A1	SIN TWIST WIRE	1		

DVD loading base assembly and parts list

Block No. M N M M



■ Parts list (DVD loading base)

Block No. MNMM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10454-007A-CK	LOADING BASE	1		
	2	QAR0164-001	MOTOR	1	MABUCHI	
	3	LV42087-001A	MOTOR PULLEY	1		
	4	QYSPSPU1730Z	SCREW	1	FOR MOTOR	
	5	VKZ4777-003	MINI SCREW	1		
	6	LV42209-001A	BELT	1		
	7	LV42084-002A	PULLEYGEAR	1		
	8	LV42085-002A	MIDDLE GEAR	1		
	9	LV42086-001A	IDLE GEAR	1		
	10	LV32514-002A	SLIDE CAM	1		
	11	LV42348-001A	P GEAR BKT	1		
	12	VKZ4777-003	MINI SCREW	1	FOR PULLEY GEAR	
	13	LV20912-002A	ELEVATOR	1		
	14	QUQ110-0610AJ	FFC WIRE	1		
	15	----------	DVD TRA-MECHA P	1		
	16	LV41424-001A	SPECIAL SCREW	4		
	17	LV32417-001A	CLAMPER	1		
	18	LV42089-002A	YOKE	1		
	19	LV42930-003A	MAGNET	1		
	20	LV41741-001A	SPECIAL SCREW	1		
	21	LV20913-002A	CLAMPER BASE	1		
	22	QYSBSF2008Z	SCREW	4		
	23	LV41659-001A	INSULATOR	4		
	24	LV10455-002A-CK	TRAY	1		

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 131	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 132	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 133	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 135	QETM1VM-338	E CAPACITOR	3300MF 20% 35V	
	C 136	QETM1VM-108	E.CAPACITOR	1000MF 20% 35V	
	C 141	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 145	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 151	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 158	NCB31HK-103X	C CAPACITOR		
	C 159	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 161	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 162	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 163	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 164	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 171	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 181	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C 182	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 183	NCB31HK-122X	C CAPACITOR		
	C 184	NCB31HK-122X	C CAPACITOR		
	C 191	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V	
	C 192	QETN1EM-477Z	E CAPACITOR	470MF 20% 25V	
	C 193	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V	
	C 194	QETN1EM-477Z	E CAPACITOR	470MF 20% 25V	
	C 195	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V	
	C 196	QETN1EM-477Z	E CAPACITOR	470MF 20% 25V	
	C 197	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 301	NCB31HK-331X	C CAPACITOR		
	C 302	NCB31HK-331X	C CAPACITOR		
	C 305	NCB31HK-331X	C CAPACITOR		
	C 306	NCB31HK-331X	C CAPACITOR		
	C 323	NCB31HK-391X	C CAPACITOR		
	C 324	NCB31HK-391X	C CAPACITOR		
	C 329	NCB31HK-331X	C CAPACITOR		
	C 330	NCB31HK-331X	C CAPACITOR		
	C 341	NCS31HJ-101X	C CAPACITOR		
	C 343	NCB31HK-562X	C CAPACITOR		
	C 344	NCB31HK-562X	C CAPACITOR		
	C 351	NCF31CZ-104X	C CAPACITOR		
	C 352	NCS31HJ-820X	C CAPACITOR		
	C 353	NCS31HJ-470X	C CAPACITOR		
	C 354	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 355	NCB31EK-473X	C CAPACITOR		
	C 356	NCS31HJ-331X	C CAPACITOR		
	C 357	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 358	NCB31HK-561X	C CAPACITOR		
	C 361	NCB31AK-154X	C CAPACITOR		
	C 362	NCB31AK-154X	C CAPACITOR		
	C 363	NCB31AK-154X	C CAPACITOR		
	C 364	NCB31AK-154X	C CAPACITOR		
	C 365	NCB31HK-272X	C CAPACITOR		
	C 366	NCB31HK-272X	C CAPACITOR		
	C 367	QEKC1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 368	QEKC1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 369	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 370	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 371	NCB31HK-223X	C CAPACITOR		
	C 372	NCB31HK-223X	C CAPACITOR		
	C 373	QEKC1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 374	NCB31HK-223X	C CAPACITOR		
	C 375	NCB31HK-102X	C CAPACITOR		
	C 376	NCS31HJ-101X	C CAPACITOR		
	C 381	QTE1H28-475Z	E CAPACITOR		
	C 382	QTE1H28-475Z	E CAPACITOR		
	C 383	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 384	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 385	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C 386	QEKC1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 400	NCS31HJ-101X	C CAPACITOR		
	C 401	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 402	NCF31CZ-104X	C CAPACITOR		
	C 403	QETN1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C 404	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C 405	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C 406	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C 407	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C 408	QFVF1HJ-104Z	MF CAPACITOR	.10MF 5% 50V	
	C 409	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 410	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 411	NCF31CZ-104X	C CAPACITOR		
	C 412	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 413	NCF31CZ-104X	C CAPACITOR		
	C 421	NCS31HJ-470X	C CAPACITOR		
	C 422	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 423	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 424	NCS31HJ-470X	C CAPACITOR		
	C 425	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 426	NCS31HJ-470X	C CAPACITOR		
	C 427	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 428	NCS31HJ-470X	C CAPACITOR		
	C 429	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 760	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C 761	NCS31HJ-101X	C CAPACITOR		
	C 762	NCS31HJ-101X	C CAPACITOR		
	C 765	NCB31HK-223X	C CAPACITOR		
	C 766	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 767	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 768	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 791	NCB31HK-221X	C CAPACITOR		
	C 792	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	CN114	QGF1205C1-13	CONNECTOR		
	CN121	QGA3901C1-08	CONNECTOR	FROM S2	
	CN122	QGA2501C3-02Z	2P CONNECTOR	FOR FAN	
	CN125	QGF1205C1-10	CONNECTOR	FROM PRIMARY	
	CN212	QGB2510J1-10	CONNECTOR	FOR POWER AMP	
	CN231	QGA2501C1-08	8P CONNECTOR	FOR PRI AMP	
	CN241	QGD2501C1-04Z	SOCKET	FOR POSISTOR	
	CN291	QGD2501C1-03Z	SOCKET	FOR H.P	
	CN301	QGF1205C1-11	CONNECTOR	FOR TUNER	
	CN411	QGF1205C1-17	CONNECTOR	FOR SCART	
	CN412	QGF1205C1-16	CONNECTOR	FOR SCART	
	CN512	QGB2027M9-26	B TO B CONNE	FROM DVD UNIT	
	CN513	QGB2027M9-26	B TO B CONNE	FROM DVD UNIT	
	CN612	QGB2510J1-13	CONNECTOR	FOR DSP	
	CN614	QGF1205C1-12	CONNECTOR	FOR DSP	
	C1101	NCS31HJ-101X	C CAPACITOR		
	C1102	NCS31HJ-101X	C CAPACITOR		
	C1103	NCS31HJ-101X	C CAPACITOR		
	C1104	NCS31HJ-101X	C CAPACITOR		
	C1191	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C1192	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C1193	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C1194	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C1195	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C1196	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C1381	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1382	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1383	NCF31CZ-104X	C CAPACITOR		
	C1384	NCF31CZ-104X	C CAPACITOR		
	C1385	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C1387	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1388	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1391	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	C1411	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1412	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1413	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1414	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1415	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1416	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1417	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1418	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	D 125	11ES2-T4	DIODE		
	D 126	11ES2-T4	DIODE		
	D 127	11ES2-T4	DIODE		
	D 128	MA111-X	DIODE		
⚠	D 131	10E2-FD	DIODE		
⚠	D 132	10E2-FD	DIODE		
⚠	D 133	11ES2-T4	DIODE		
⚠	D 134	11ES2-T4	DIODE		
	D 141	MTZJ5.6C-T2	ZENER DIODE		
	D 145	MTZJ6.2C-T2	Z DIODE		
	D 151	MTZJ5.6C-T2	ZENER DIODE		
	D 155	MA111-X	DIODE		
	D 156	MTZJ16C-T2	Z.DIODE		
	D 157	MTZJ13C-T2	ZENER DIODE		
	D 158	MTZJ10C-T2	Z.DIODE		
	D 159	MTZJ7.5C-T2	ZENER DIODE		
	D 161	MTZJ13C-T2	ZENER DIODE		
	D 162	MTZJ13C-T2	ZENER DIODE		
	D 163	MTZJ7.5C-T2	ZENER DIODE		
	D 164	MTZJ7.5C-T2	ZENER DIODE		
	D 171	MTZJ11C-T2	Z.DIODE		
	D 172	MA111-X	DIODE		
	D 181	MTZJ13C-T2	ZENER DIODE		
	D 182	MTZJ5.6C-T2	ZENER DIODE		
	D 187	MTZJ3.9B-T2	ZENER DIODE		
	D 188	MTZJ5.6C-T2	ZENER DIODE		
	D 189	MTZJ10C-T2	Z.DIODE		
⚠	D 191	SFPB-54-W	DIODE		
⚠	D 192	SFPB-54-W	DIODE		
⚠	D 193	SFPB-54-W	DIODE		
	D 194	MTZJ5.6C-T2	ZENER DIODE		
	D 195	MA111-X	DIODE		
	D 196	MA111-X	DIODE		
	D 197	MA111-X	DIODE		
	D 291	MA111-X	DIODE		
	D 761	MA111-X	DIODE		
	D 762	MA111-X	DIODE		
	D 791	MTZJ6.2C-T2	Z DIODE		
	D1391	MA111-X	DIODE		
	D1392	MTZJ4.7C-T2	Z.DIODE		
	EP101	QNZ0136-001Z	EARTH PLATE		
	EP191	QNZ0136-001Z	EARTH PLATE		
	FC130	QNG0020-001Z	FUSE CLIP	FOR F121	
	FC131	QNG0020-001Z	FUSE CLIP	FOR F121	
	FC132	QNG0020-001Z	FUSE CLIP	FOR F132	
	FC133	QNG0020-001Z	FUSE CLIP	FOR F132	
	HS141	E70306-001	HEAT SINK		
	HS145	E70306-001	HEAT SINK		
	HS151	E70306-001	HEAT SINK		
	HS152	E70306-001	HEAT SINK		
	HS154	E70306-001	HEAT SINK		
	HS161	E70306-001	HEAT SINK		
	HS162	E70306-001	HEAT SINK		
	HS165	E70306-001	HEAT SINK		
	HS181	E70306-001	HEAT SINK		
	HS182	E70306-001	HEAT SINK		
⚠	IC191	SI-8033JF	IC		
⚠	IC192	SI-8050JF-F1	IC		

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	IC193	SI-8090JF	IC		
	IC301	M61516FP	IC	ANALOG SW/VOLUM	
	IC302	SAA6588	IC(RDS)		
	IC303	BA15218F-XE	IC		
	IC401	LA73054-X	IC	VIDEO DRIVER	
	IC761	MN101C49GKG	SYSTEM MICOM	SYSTEM MICOM	
	IC763	IC-PST9139-T	IC		
	J 301	QNN0476-001	PIN JACK	TAPE IN/OUT	
	J 401	QNZ0516-001	RGB CONNECTOR	SCART TV	
	J 791	QNS0089-001	3.5 JACK		
	K 401	NRSA63J-0R0X	MG RESISTOR		
	K 402	NRSA63J-0R0X	MG RESISTOR		
	K 403	NRSA63J-0R0X	MG RESISTOR		
	K 404	NRSA63J-0R0X	MG RESISTOR		
	L 191	QQL28AK-101	CHOKE COIL		
	L 192	QQL28AK-101	CHOKE COIL		
	L 193	QQL28AK-101	CHOKE COIL		
	L 197	QQL244K-100Z	INDUCTOR		
	L 198	QQL244K-100Z	INDUCTOR		
	L 341	QQR0590-001	FILTER		
	L 342	QQR0590-001	FILTER		
⚠	Q 141	2SD2395/EF/	TRANSISTOR		
	Q 142	KRA102S-X	DIGITAL.TR		
	Q 143	KRC102S-X	DIGITAL.TR		
⚠	Q 145	2SD2395/EF/	TRANSISTOR		
⚠	Q 151	2SD2395/EF/	TRANSISTOR		
⚠	Q 152	2SD2395/EF/	TRANSISTOR		
	Q 153	KRA102S-X	DIGITAL.TR		
⚠	Q 154	2SD2395/EF/	TRANSISTOR		
	Q 155	KRA102S-X	DIGITAL.TR		
	Q 156	KRC102S-X	DIGITAL.TR		
	Q 157	KRC102S-X	DIGITAL.TR		
	Q 158	KRC102S-X	DIGITAL.TR		
	Q 159	KRC102S-X	DIGITAL.TR		
⚠	Q 161	2SD2395/EF/	TRANSISTOR		
⚠	Q 162	KTA1046/Y/	TRANSISTOR		
⚠	Q 163	KTC3203/OY/-T	TRANSISTOR		
⚠	Q 164	KTA1271/OY/-T	TRANSISTOR		
	Q 165	2SD2395/EF/	TRANSISTOR		
⚠	Q 171	KTC3203/OY/-T	TRANSISTOR		
	Q 172	KRA102S-X	DIGITAL.TR		
	Q 173	KRC102S-X	DIGITAL.TR		
⚠	Q 181	2SD2395/EF/	TRANSISTOR		
⚠	Q 182	2SD2395/EF/	TRANSISTOR		
	Q 183	2SD2395/EF/	TRANSISTOR		
	Q 191	KRC102S-X	DIGITAL.TR		
	Q 192	KRC102S-X	DIGITAL.TR		
	Q 193	KRC102S-X	DIGITAL.TR		
⚠	Q 194	KTC3203/OY/-T	TRANSISTOR		
	Q 381	2SC3576-JVC-T	TRANSISTOR		
	Q 382	2SC3576-JVC-T	TRANSISTOR		
	Q 383	2SC3576-JVC-T	TRANSISTOR		
	Q 384	2SC3576-JVC-T	TRANSISTOR		
	Q 385	2SC3576-JVC-T	TRANSISTOR		
	Q 386	KRA104S-X	DIGITAL.TR		
	Q 433	KRC107S-X	DIGITAL.TR		
	Q 434	KRC102S-X	DIGITAL.TR		
	Q 435	KRC102S-X	DIGITAL.TR		
	Q 761	KTC3199/GL/-T	TRANSISTOR		
	Q 762	KTC3199/GL/-T	TRANSISTOR		
	Q 763	KTC3199/GL/-T	TRANSISTOR		
	Q 764	KTC3199/GL/-T	TRANSISTOR		
	Q 765	KRC102S-X	DIGITAL.TR		
	Q 766	KRC105S-X	CHIP D.TR.		
	Q 767	KRC105S-X	CHIP D.TR.		
	Q 768	KRC105S-X	CHIP D.TR.		

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	Q 769	KRC105S-X	CHIP D.TR.		
	Q 770	2SD1328/ST/-X	TRANSISTOR		
	Q 771	KRC107S-X	DIGITAL.TR		
	Q 799	KRC102S-X	DIGITAL.TR		
	Q1381	2SC3576-JVC-T	TRANSISTOR		
	Q1382	2SC3576-JVC-T	TRANSISTOR		
	Q1383	KRA104S-X	DIGITAL.TR		
⚠	R 141	QRZ9005-120X	F RESISTOR	12 1/4W	
⚠	R 142	QRJ146J-682X	UNF C RESISTOR	6.8K 5% 1/4W	
⚠	R 145	QRZ9005-120X	F RESISTOR	12 1/4W	
⚠	R 146	QRJ146J-332X	UNF C RESISTOR	3.3K 5% 1/4W	
⚠	R 151	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 152	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 153	QRJ146J-332X	UNF C RESISTOR	3.3K 5% 1/4W	
⚠	R 154	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 155	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 158	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 159	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
	R 160	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
⚠	R 161	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 162	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 163	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 164	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R 165	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 166	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 167	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R 168	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
	R 169	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 170	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 171	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 172	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
⚠	R 181	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 182	QRZ9006-4R7X	F RESISTOR	4.7 1/4W	
⚠	R 183	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
⚠	R 184	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 185	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 186	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 187	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R 191	QRK126J-100X	C RESISTOR	10 5% 1/2W	
⚠	R 192	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R 290	QRJ146J-181X	UNF C RESISTOR	180 5% 1/4W	
	R 301	NRSA63J-471X	MG RESISTOR		
	R 302	NRSA63J-471X	MG RESISTOR		
	R 303	NRSA63J-473X	MG RESISTOR		
	R 304	NRSA63J-473X	MG RESISTOR		
	R 307	NRSA63J-473X	MG RESISTOR		
	R 308	NRSA63J-473X	MG RESISTOR		
	R 309	NRSA63J-471X	MG RESISTOR		
	R 310	NRSA63J-471X	MG RESISTOR		
	R 311	NRSA63J-473X	MG RESISTOR		
	R 312	NRSA63J-473X	MG RESISTOR		
	R 315	NRSA63J-473X	MG RESISTOR		
	R 316	NRSA63J-473X	MG RESISTOR		
	R 321	NRSA63J-102X	MG RESISTOR		
	R 322	NRSA63J-102X	MG RESISTOR		
	R 325	NRSA63J-101X	MG RESISTOR		
	R 326	NRSA63J-101X	MG RESISTOR		
	R 341	NRSA63J-102X	MG RESISTOR		
	R 342	NRSA63J-102X	MG RESISTOR		
	R 343	NRSA63J-682X	MG RESISTOR		
	R 344	NRSA63J-682X	MG RESISTOR		
	R 345	NRSA63J-473X	MG RESISTOR		
	R 346	NRSA63J-473X	MG RESISTOR		
	R 351	NRSA63J-474X	MG RESISTOR		
	R 352	NRSA63J-102X	MG RESISTOR		
	R 353	NRSA63J-103X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 354	NRSA63J-103X	MG RESISTOR		
	R 361	NRSA63J-752X	MG RESISTOR		
	R 362	NRSA63J-752X	MG RESISTOR		
	R 381	NRSA63J-104X	MG RESISTOR		
	R 382	NRSA63J-104X	MG RESISTOR		
	R 383	NRSA63J-102X	MG RESISTOR		
	R 384	NRSA63J-102X	MG RESISTOR		
	R 385	NRSA63J-103X	MG RESISTOR		
	R 386	NRSA63J-103X	MG RESISTOR		
	R 387	NRSA63J-104X	MG RESISTOR		
	R 388	NRSA63J-104X	MG RESISTOR		
	R 389	NRSA63J-102X	MG RESISTOR		
	R 390	NRSA63J-102X	MG RESISTOR		
	R 391	NRSA63J-103X	MG RESISTOR		
	R 392	NRSA63J-103X	MG RESISTOR		
	R 393	NRSA63J-104X	MG RESISTOR		
	R 394	NRSA63J-102X	MG RESISTOR		
	R 395	NRSA63J-103X	MG RESISTOR		
	R 396	NRSA63J-102X	MG RESISTOR		
	R 401	NRSA63J-0R0X	MG RESISTOR		
	R 402	NRSA63J-360X	C RESISTOR		
	R 403	NRSA63J-103X	MG RESISTOR		
	R 404	NRSA63J-103X	MG RESISTOR		
	R 405	NRSA63J-0R0X	MG RESISTOR		
	R 406	NRSA63J-750X	MG RESISTOR		
	R 407	NRSA63J-0R0X	MG RESISTOR		
	R 408	NRSA63J-360X	C RESISTOR		
	R 409	NRSA63J-0R0X	MG RESISTOR		
	R 410	NRSA63J-360X	C RESISTOR		
	R 411	NRSA63J-103X	MG RESISTOR		
	R 414	NRSA63J-0R0X	MG RESISTOR		
	R 415	NRSA63J-103X	MG RESISTOR		
	R 416	NRSA63J-102X	MG RESISTOR		
	R 417	NRSA63J-102X	MG RESISTOR		
	R 418	NRSA63J-104X	MG RESISTOR		
	R 421	NRSA63J-750X	MG RESISTOR		
	R 422	NRSA63J-473X	MG RESISTOR		
	R 423	NRSA63J-750X	MG RESISTOR		
	R 424	NRSA63J-473X	MG RESISTOR		
	R 425	NRSA63J-750X	MG RESISTOR		
	R 426	NRSA63J-750X	MG RESISTOR		
	R 427	NRSA63J-473X	MG RESISTOR		
	R 428	NRSA63J-750X	MG RESISTOR		
	R 429	NRSA63J-473X	MG RESISTOR		
	R 430	NRSA63J-331X	MG RESISTOR		
	R 431	NRSA63J-750X	MG RESISTOR		
	R 452	NRSA63J-750X	MG RESISTOR		
	R 760	NRSA63J-331X	MG RESISTOR		
	R 761	NRSA63J-223X	MG RESISTOR		
	R 762	NRSA63J-473X	MG RESISTOR		
	R 763	NRSA63J-683X	MG RESISTOR		
	R 764	NRSA63J-473X	MG RESISTOR		
	R 765	NRSA63J-153X	MG RESISTOR		
	R 766	NRSA63J-273X	MG RESISTOR		
	R 767	NRSA63J-103X	MG RESISTOR		
	R 768	NRSA63J-103X	MG RESISTOR		
	R 769	NRSA63J-223X	MG RESISTOR		
	R 770	NRSA63J-473X	MG RESISTOR		
	R 771	NRSA63J-683X	MG RESISTOR		
	R 772	NRSA63J-473X	MG RESISTOR		
	R 773	NRSA63J-153X	MG RESISTOR		
	R 774	NRSA63J-273X	MG RESISTOR		
	R 775	NRSA63J-103X	MG RESISTOR		
	R 776	NRSA63J-103X	MG RESISTOR		
	R 777	NRSA63J-103X	MG RESISTOR		
	R 778	NRSA63J-223X	MG RESISTOR		

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 779	NRSA63J-472X	MG RESISTOR		
	R 780	NRSA63J-103X	MG RESISTOR		
	R 783	NRSA63J-103X	MG RESISTOR		
	R 784	NRSA63J-103X	MG RESISTOR		
	R 791	NRSA63J-221X	MG RESISTOR		
	R 792	NRSA63J-103X	MG RESISTOR		
	R 793	NRSA63J-103X	MG RESISTOR		
	R 794	NRSA63J-103X	MG RESISTOR		
	R 798	NRSA63J-153X	MG RESISTOR		
	R 799	NRSA63J-333X	MG RESISTOR		
⚠	RY291	QSK0109-001	RELAY		
	R1101	NRSA63J-0R0X	MG RESISTOR		
	R1102	NRSA63J-0R0X	MG RESISTOR		
	R1103	NRSA63J-0R0X	MG RESISTOR		
	R1104	NRSA63J-0R0X	MG RESISTOR		
	R1105	NRSA63J-0R0X	MG RESISTOR		
	R1106	NRSA63J-0R0X	MG RESISTOR		
	R1107	NRSA63J-0R0X	MG RESISTOR		
	R1108	NRSA63J-0R0X	MG RESISTOR		
	R1122	NRSA63J-0R0X	MG RESISTOR		
	R1123	NRSA63J-0R0X	MG RESISTOR		
	R1124	NRSA63J-221X	MG RESISTOR		
	R1125	NRSA63J-221X	MG RESISTOR		
	R1126	NRSA63J-221X	MG RESISTOR		
	R1127	NRSA63J-0R0X	MG RESISTOR		
	R1128	NRSA63J-221X	MG RESISTOR		
	R1130	NRSA63J-221X	MG RESISTOR		
	R1132	NRSA63J-0R0X	MG RESISTOR		
	R1134	NRSA63J-0R0X	MG RESISTOR		
	R1135	NRSA63J-0R0X	MG RESISTOR		
	R1136	NRSA63J-0R0X	MG RESISTOR		
	R1137	NRSA63J-0R0X	MG RESISTOR		
	R1138	NRSA63J-0R0X	MG RESISTOR		
	R1381	NRSA63J-104X	MG RESISTOR		
	R1382	NRSA63J-273X	MG RESISTOR		
	R1383	NRSA63J-102X	MG RESISTOR		
	R1384	NRSA63J-104X	MG RESISTOR		
	R1385	NRSA63J-102X	MG RESISTOR		
	R1386	NRSA63J-102X	MG RESISTOR		
	R1387	NRSA63J-103X	MG RESISTOR		
	R1388	NRSA63J-103X	MG RESISTOR		
	R1389	NRSA63J-102X	MG RESISTOR		
	R1391	NRSA63J-822X	MG RESISTOR		
	R1392	NRSA63J-822X	MG RESISTOR		
	R1393	NRSA63J-822X	MG RESISTOR		
	R1394	NRSA63J-822X	MG RESISTOR		
	R1395	NRSA63J-822X	MG RESISTOR		
	R1397	NRSA63J-124X	MG RESISTOR		
	R1398	NRSA63J-103X	MG RESISTOR		
	R1399	NRSA63J-103X	MG RESISTOR		
	R1413	NRSA63J-750X	MG RESISTOR		
	R1414	NRSA63J-750X	MG RESISTOR		
	R1415	NRSA63J-750X	MG RESISTOR		
	R1416	NRSA63J-750X	MG RESISTOR		
	R1417	NRSA63J-750X	MG RESISTOR		
	R1418	NRSA63J-750X	MG RESISTOR		
	R1419	NRSA63J-750X	MG RESISTOR		
	R1420	NRSA63J-750X	MG RESISTOR		
	R1731	NRSA63J-562X	MG RESISTOR		
	R1732	NRSA63J-562X	MG RESISTOR		
	R1733	NRSA63J-103X	MG RESISTOR		
	R1734	NRSA63J-103X	MG RESISTOR		
	S 401	QSW0454-001	SWITCH	COMPOSITE-Y/C	
	X 301	QAX0263-001Z	CRYSTAL		
	X 761	QAX0246-001Z	C RESONATOR		

■ **Electrical parts list (Scart board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 303	NCS31HJ-331X	C CAPACITOR		
	C 304	NCS31HJ-331X	C CAPACITOR		
	C 307	NCS31HJ-331X	C CAPACITOR		
	C 308	NCS31HJ-331X	C CAPACITOR		
	C 325	NCS31HJ-331X	C CAPACITOR		
	C 326	NCS31HJ-331X	C CAPACITOR		
	C 327	NCS31HJ-331X	C CAPACITOR		
	C 328	NCS31HJ-331X	C CAPACITOR		
	CN401	QGF1205F1-17	CONNECTOR		
	CN402	QGF1205F1-16	CONNECTOR		
	C1401	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1402	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1403	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1404	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1405	NCS31HJ-470X	C CAPACITOR		
	C1406	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1421	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1422	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1423	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1424	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1461	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C1462	NCF31CZ-104X	C CAPACITOR		
	C1463	NCF31CZ-104X	C CAPACITOR		
	C1464	NCF31CZ-104X	C CAPACITOR		
	C1481	NCF31CZ-104X	C CAPACITOR		
	C1493	NCF31CZ-104X	C CAPACITOR		
	C1494	NCF31CZ-104X	C CAPACITOR		
	C1495	NCF31CZ-104X	C CAPACITOR		
	D1401	MTZJ13C-T2	ZENER DIODE		
	D1402	MTZJ13C-T2	ZENER DIODE		
	D1403	MTZJ13C-T2	ZENER DIODE		
	D1404	MTZJ13C-T2	ZENER DIODE		
	D1421	MTZJ13C-T2	ZENER DIODE		
	D1422	MTZJ13C-T2	ZENER DIODE		
	D1423	MTZJ13C-T2	ZENER DIODE		
	D1424	MTZJ13C-T2	ZENER DIODE		
	IC402	NJM2246M-X	IC		
	IC403	NJM2246M-X	IC		
	IC404	NJM2246M-X	IC		
	IC405	BA7625	IC		
	IC406	TC74HC4053AF-X	I.C		
	J 402	QNZ0516-001	RGB CONNECTOR	SCART VCR	
	J 403	QNZ0516-001	RGB CONNECTOR	SCART STB	
	Q1441	KTC3199/GL/-T	TRANSISTOR		
	Q1442	KRC111S-X	TRANSISTOR		
	Q1443	KTC3199/GL/-T	TRANSISTOR		
	Q1444	KRC111S-X	TRANSISTOR		
	Q1445	KTC3199/GL/-T	TRANSISTOR		
	Q1446	KRC111S-X	TRANSISTOR		
	Q1447	KTA1267/YG/-T	TRANSISTOR		
	Q1448	KTA1267/YG/-T	TRANSISTOR		
	Q1481	KTC3199/GL/-T	TRANSISTOR		
	Q1482	KTC3199/GL/-T	TRANSISTOR		
	Q1483	KTC3199/GL/-T	TRANSISTOR		
	R 305	NRSA63J-471X	MG RESISTOR		
	R 306	NRSA63J-471X	MG RESISTOR		
	R 313	NRSA63J-471X	MG RESISTOR		
	R 314	NRSA63J-471X	MG RESISTOR		
	R 323	NRSA63J-101X	MG RESISTOR		
	R 324	NRSA63J-101X	MG RESISTOR		
	R1401	NRSA63J-331X	MG RESISTOR		
	R1402	NRSA63J-750X	MG RESISTOR		
	R1403	NRSA63J-331X	MG RESISTOR		
	R1404	NRSA63J-750X	MG RESISTOR		
	R1405	NRSA63J-750X	MG RESISTOR		
	R1406	NRSA63J-331X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R1407	NRSA63J-750X	MG RESISTOR		
	R1408	NRSA63J-473X	MG RESISTOR		
	R1409	NRSA63J-750X	MG RESISTOR		
	R1410	NRSA63J-331X	MG RESISTOR		
	R1411	NRSA63J-750X	MG RESISTOR		
	R1421	NRSA63J-331X	MG RESISTOR		
	R1422	NRSA63J-750X	MG RESISTOR		
	R1423	NRSA63J-331X	MG RESISTOR		
	R1424	NRSA63J-750X	MG RESISTOR		
	R1425	NRSA63J-750X	MG RESISTOR		
	R1426	NRSA63J-331X	MG RESISTOR		
	R1427	NRSA63J-750X	MG RESISTOR		
	R1428	NRSA63J-331X	MG RESISTOR		
	R1429	NRSA63J-750X	MG RESISTOR		
	R1441	NRSA63J-301X	MG RESISTOR		
	R1442	NRSA63J-391X	MG RESISTOR		
	R1443	NRSA63J-301X	MG RESISTOR		
	R1444	NRSA63J-391X	MG RESISTOR		
	R1445	NRSA63J-301X	MG RESISTOR		
	R1446	NRSA63J-391X	MG RESISTOR		
	R1447	NRSA63J-301X	MG RESISTOR		
	R1448	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R1449	NRSA63J-301X	MG RESISTOR		
	R1450	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
⚠	R1461	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1481	NRSA63J-391X	MG RESISTOR		
	R1482	NRSA63J-301X	MG RESISTOR		
	R1483	NRSA63J-102X	MG RESISTOR		
	R1484	NRSA63J-103X	MG RESISTOR		
	R1485	NRSA63J-103X	MG RESISTOR		
	R1486	NRSA63J-103X	MG RESISTOR		
	R1487	NRSA63J-473X	MG RESISTOR		
	R1488	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1495	NRSA63J-222X	MG RESISTOR		
	R1496	NRSA63J-222X	MG RESISTOR		
	R1497	NRSA63J-222X	MG RESISTOR		
	R1498	NRSA63J-222X	MG RESISTOR		

■ **Electrical parts list (Amp. board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 101	QFLC2AJ-472Z	M CAPACITOR	4700PF 5% 100V	
	C 102	QETN1EM-477Z	E CAPACITOR	470/25V	
⚠	C 103	QCZ9104-472	C.CAPACITOR	4700PF	
	C 104	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C 109	QFZ9076-104Z	MM CAPACITOR	TV DIRECT	
	C 110	QCE22HP-103	C CAPACITOR	TV DIRECT	
	C 111	QFZ9076-104Z	MM CAPACITOR	.10MF	
	C 112	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C 113	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C 115	QFZ9076-104Z	MM CAPACITOR	.10MF	
	C 116	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C 117	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C 119	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 120	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 121	QETN2AM-107Z	E CAPACITOR	100MF 20% 100V	
	C 122	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C 123	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 200	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 201	QFLC1HJ-471Z	M CAPACITOR	470PF 5% 50V	
	C 202	QFLC1HJ-471Z	M CAPACITOR	470PF 5% 50V	
	C 203	QTE1H28-225Z	E CAPACITOR		
	C 204	QTE1H28-225Z	E CAPACITOR		
	C 205	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 206	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 207	QCS31HJ-3R0Z	C CAPACITOR	3.0PF 5% 50V	
	C 208	QCS31HJ-3R0Z	C CAPACITOR	3.0PF 5% 50V	
	C 210	QDGB1HK-102Y	C CAPACITOR	EMC(E/U)	
	C 211	QEZ0588-688	E.CAPACITOR		
	C 212	QEZ0588-688	E.CAPACITOR		
	C 213	QEZ0589-478	E CAPACITER	4700MF	
	C 214	QEZ0589-478	E CAPACITER	4700MF	
	C 221	QETN2AM-107Z	E CAPACITOR	100MF 20% 100V	
	C 222	QETN2AM-107Z	E CAPACITOR	100MF 20% 100V	
	C 223	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	
	C 224	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	
	C 231	QCBB1HK-222Y	C CAPACITOR	2200PF 10% 50V	
	C 232	QCBB1HK-222Y	C CAPACITOR	2200PF 10% 50V	
	C 241	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 242	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 243	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 244	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 245	QFLC1HJ-104Z	M CAPACITOR	(U)	
	C 246	QFLC1HJ-104Z	M CAPACITOR	(U)	
	C 247	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 248	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 249	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 250	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 251	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 252	QCS32HJ-221Z	C CAPACITOR	(U)	
	C 253	QFLC1HJ-104Z	M CAPACITOR	(E,U)	
	C 254	QFLC1HJ-104Z	M CAPACITOR	(E,U)	
	C 271	QEKC1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C 272	QEKC1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C 285	QETN2AM-106Z	E.CAPACITOR	10MF 20% 100V	
	C 291	QEKC1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C 292	QEKC1CM-476Z	E CAPACITOR	47MF 20% 16V	
	CN101	QGA7901C1-02	CONNECTOR		
	CN111	QGA3901C1-05	CONNECTOR		
	CN113	QJK012-051700	SIN CR C-B WIRE	CHIBITORA TO AM	
	CN115	QGF1205C1-10	CONNECTOR		
	CN201	QGA3901F2-05	5P CONNECTOR		
	CN202	QGB2510J1-10	CONNECTOR		
	CN203	QGB2510J1-05	CONNECTOR		
	CN204	QGB2510J1-07	CONNECTOR		
	CN213	QGB2510K1-05	CONNECTOR		
	CN214	QGB2510K1-07	CONNECTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	CN222	WJP0040-001A	E-SH C WIRE C-B		
	C1201	QFLC1HJ-471Z	M CAPACITOR	470PF 5% 50V	
	C1202	QFLC1HJ-471Z	M CAPACITOR	470PF 5% 50V	
	C1203	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C1204	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C1205	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C1206	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C1207	QCS31HJ-3R0Z	C CAPACITOR	3.0PF 5% 50V	
	C1208	QCS31HJ-3R0Z	C CAPACITOR	3.0PF 5% 50V	
	C1221	QETN2AM-107Z	E CAPACITOR	100MF 20% 100V	
	C1222	QETN2AM-107Z	E CAPACITOR	100MF 20% 100V	
	C1223	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	
	C1224	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	
	C1241	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1242	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1243	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1244	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1245	QFLC1HJ-104Z	M CAPACITOR	(U)	
	C1246	QFLC1HJ-104Z	M CAPACITOR	(U)	
	C1247	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1248	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1249	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1250	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1251	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1252	QCS32HJ-221Z	C CAPACITOR	(U)	
	C1253	QFLC1HJ-104Z	M CAPACITOR	(E,U)	
	C1254	QFLC1HJ-104Z	M CAPACITOR	(E.U)	
	C2201	QFLC1HJ-471Z	M CAPACITOR	470PF 5% 50V	
	C2203	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C2205	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C2207	QCS31HJ-3R0Z	C CAPACITOR	3.0PF 5% 50V	
	C2223	QCS31HJ-101Z	C CAPACITOR	100PF 5% 50V	
	C2241	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C2243	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C2245	QFLC1HJ-104Z	M CAPACITOR	(U)	
	C2247	QCS32HJ-221Z	C CAPACITOR	(U)	
	C2249	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C2251	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C2253	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
⚠	D 101	11ES2-T4	DIODE		
⚠	D 102	11ES2-T4	DIODE		
⚠	D 103	11ES2-T4	DIODE		
⚠	D 104	11ES2-T4	DIODE		
	D 105	1SS119-041-T2	SI DIODE		
	D 108	1SS119-041-T2	SI DIODE		
	D 109	MTZJ6.8C-T2	Z DIODE		
⚠	D 111	30DF2-FC	DIODE		
⚠	D 112	30DF2-FC	DIODE		
⚠	D 113	30DF2-FC	DIODE		
⚠	D 114	30DF2-FC	DIODE		
⚠	D 115	30DF2-FC	DIODE		
⚠	D 116	30DF2-FC	DIODE		
⚠	D 117	30DF2-FC	DIODE		
⚠	D 118	30DF2-FC	DIODE		
	D 119	11ES2-T4	DIODE	TV DIRECT	
	D 120	11ES2-T4	DIODE	TV DIRECT	
	D 121	MTZJ30C-T2	ZENER DIODE		
	D 122	MTZJ6.2C-T2	Z DIODE		
	D 123	1SS119-041-T2	SI DIODE		
	D 124	1SS119-041-T2	SI DIODE		
	D 221	MTZJ15C-T2	Z DIODE		
	D 222	MTZJ15C-T2	Z DIODE		
	D 229	1SS119-041-T2	SI DIODE		
	D 230	1SS119-041-T2	SI DIODE		
	D 261	1SS119-041-T2	SI DIODE		
	D 271	1SS119-041-T2	SI DIODE		

■ **Electrical parts list (Amp. board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	D 293	1SS119-041-T2	SI DIODE		
	D1221	MTZJ15C-T2	Z DIODE		
	D1222	MTZJ15C-T2	Z DIODE		
	D1229	1SS119-041-T2	SI DIODE		
	D1230	1SS119-041-T2	SI DIODE		
	D1261	1SS119-041-T2	SI DIODE		
	D2229	1SS119-041-T2	SI DIODE		
	D2261	1SS119-041-T2	SI DIODE		
	EP102	QNZ0136-001Z	EARTH PLATE		
	FC100	QNG0020-001Z	FUSE CLIP	FOR F101	
	FC101	QNG0020-001Z	FUSE CLIP	FOR F101	
	FC102	QNG0020-001Z	FUSE CLIP	FOR F102	
	FC103	QNG0020-001Z	FUSE CLIP	FOR F102	
⚠	IC201	JCV8007	IC	POWER AMP L/R	
⚠	IC202	JCV8008	IC	POWER AMP CNT/S	
	J 201	QNN0195-001	PIN JACK		
	L 241	QQLZ005-R45	INDUCTOR		
	L 242	QQLZ005-R45	INDUCTOR		
	L 243	QQLZ005-R45	INDUCTOR	(E,U)	
	L 244	QQLZ005-R45	INDUCTOR	(E,U)	
	L1241	QQLZ005-R45	INDUCTOR		
	L1242	QQLZ005-R45	INDUCTOR		
	L1243	QQLZ005-R45	INDUCTOR	(E,U)	
	L1244	QQLZ005-R45	INDUCTOR	(E,U)	
	L2241	QQLZ005-R45	INDUCTOR		
	L2243	QQLZ005-R45	INDUCTOR	(E,U)	
⚠	PW101	QUB112-30PPPP	SIN TWIST WIRE	WITH PW151 U	
⚠	PW102	QUB111-32PPPP	SIN TWIST WIRE	WITH PW152 U	
⚠	PW103	QUB116-28PPPP	SIN TWIST WIRE	WITH PW153 U	
	PW201	QUB110-24DMPP	SIN TWIST WIRE		
	Q 101	KRC105M-T	D.TRANSISTOR		
⚠	Q 103	KTC3203/OY/-T	TRANSISTOR		
⚠	Q 121	KTA1046/Y/	TRANSISTOR		
	Q 122	KTC3200/GL/-T	TRANSISTOR		
	Q 231	KTC3200/GL/-T	TRANSISTOR		
	Q 232	KTC3200/GL/-T	TRANSISTOR		
	Q 271	KTC3200/GL/-T	TRANSISTOR		
	Q 272	KTA1268/GL/-T	TRANSISTOR		
	Q 273	KTC3199/GL/-T	TRANSISTOR		
	Q 285	KTA1268/GL/-T	TRANSISTOR		
	Q 291	KTC3200/GL/-T	TRANSISTOR		
	Q 292	KTA1268/GL/-T	TRANSISTOR		
	Q 293	KTC3199/GL/-T	TRANSISTOR		
	Q1231	KTC3200/GL/-T	TRANSISTOR		
	Q1232	KTC3200/GL/-T	TRANSISTOR		
	Q2231	KTC3200/GL/-T	TRANSISTOR		
⚠	R 102	QRJ146J-100X	UNF C RESISTOR	FOR VER.ALL	
⚠	R 105	QRJ146J-821X	UNF C RESISTOR	820 5% 1/4W	
⚠	R 106	QRJ146J-100X	UNF C RESISTOR	FOR VER.J.C.E	
⚠	R 111	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
⚠	R 121	QRZ9005-100X	F RESISTOR	10 1/4W	
⚠	R 122	QRJ146J-682X	UNF C RESISTOR	6.8K 5% 1/4W	
⚠	R 123	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 124	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R 125	QRJ146J-680X	UNF C RESISTOR	TV DIRECT	
⚠	R 126	QRJ146J-680X	UNF C RESISTOR	TV DIRECT	
	R 201	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 202	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 203	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 204	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R 205	QRJ146J-471X	UNF C RESISTOR	470 5% 1/4W	
⚠	R 206	QRJ146J-471X	UNF C RESISTOR	470 5% 1/4W	
	R 207	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 208	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 209	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
⚠	R 221	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	R 222	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	
⚠	R 223	QRL017J-152	000.OMF.RES.	1.5K 5% 1/1W	
⚠	R 224	QRL017J-152	000.OMF.RES.	1.5K 5% 1/1W	
⚠	R 225	QRZ0224-R22	EMIT.RESISTOR	1/2W	
⚠	R 226	QRZ0224-R22	EMIT.RESISTOR	1/2W	
	R 227	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 228	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 229	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 230	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 231	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 232	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 233	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	
	R 234	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 235	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 236	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 237	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 241	QRJ146J-330X	UNF C RESISTOR	33 5% 1/4W	
	R 242	QRJ146J-330X	UNF C RESISTOR	33 5% 1/4W	
⚠	R 243	QRL027J-100	UNF.OMF.RES.	(U)	
⚠	R 244	QRL027J-100	UNF.OMF.RES.	(U)	
⚠	R 245	QRJ146J-3R9X	UNF C RESISTOR	3.9 5% 1/4W	
⚠	R 246	QRJ146J-3R9X	UNF C RESISTOR	3.9 5% 1/4W	
⚠	R 261	QRJ146J-181X	UNF C RESISTOR	180 5% 1/4W	
	R 271	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 272	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 273	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 274	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 275	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 276	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 277	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 278	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 279	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 280	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
⚠	R 281	QRL027J-471	UNF OMF.RES.	470 5% 1/2W	
⚠	R 282	QRL027J-471	UNF OMF.RES.	470 5% 1/2W	
	R 285	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 286	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 291	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 292	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 293	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 294	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 295	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 296	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	RY101	QSK0142-001	RELAY		
⚠	RY125	QSK0082-001	RELAY	TV DIRECT	
⚠	RY126	QSK0082-001	RELAY	TV DIRECT	
⚠	RY261	QSK0109-001	RELAY		
⚠	RY262	QSK0109-001	RELAY		
⚠	RY263	QSK0109-001	RELAY		
	R1201	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1202	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1203	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R1204	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R1205	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
⚠	R1206	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
	R1207	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R1208	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R1209	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
⚠	R1221	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	
⚠	R1222	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	
⚠	R1223	QRL017J-152	000.OMF.RES.	1.5K 5% 1/1W	
⚠	R1224	QRL017J-152	000.OMF.RES.	1.5K 5% 1/1W	
⚠	R1225	QRZ0224-R22	EMIT.RESISTOR	1/2W	
⚠	R1226	QRZ0224-R22	EMIT.RESISTOR	1/2W	
	R1227	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1228	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	

■ **Electrical parts list (Amp. board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	R1229	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R1230	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R1231	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1232	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R1233	QRJ146J-101X	UNF C RESISTOR	100 5% 1/4W	
	R1234	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1235	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1236	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1237	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1241	QRJ146J-330X	UNF C RESISTOR	33 5% 1/4W	
	R1242	QRJ146J-330X	UNF C RESISTOR	33 5% 1/4W	
⚠	R1243	QRL027J-100	UNF.OMF.RES.	10 5% 1/2W	
⚠	R1244	QRL027J-100	UNF.OMF.RES.	10 5% 1/2W	
⚠	R1245	QRJ146J-3R9X	UNF C RESISTOR	(U)	
⚠	R1246	QRJ146J-3R9X	UNF C RESISTOR	(U)	
⚠	R1261	QRJ146J-181X	UNF C RESISTOR	180 5% 1/4W	
	R2201	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R2203	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R2205	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
	R2207	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R2225	QRZ0224-R22	EMIT.RESISTOR	1/2W	
	R2227	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R2229	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R2231	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R2241	QRJ146J-330X	UNF C RESISTOR	33 5% 1/4W	
⚠	R2243	QRL027J-100	UNF.OMF.RES.	10 5% 1/2W	
⚠	R2245	QRJ146J-3R9X	UNF C RESISTOR	(U)	
⚠	R2261	QRJ146J-181X	UNF C RESISTOR	180 5% 1/4W	
	ST201	QNB0141-001	SPK TERMINAL		
	ST202	QNB0142-001	SPK TERMINAL		
⚠	T 102	QQT0281-002	POWER TRANSF	FOR VER.E	
	TA101	QNZ0079-001Z	TAB		
	TA102	QNZ0079-001Z	TAB		

■ **Electrical parts list (Front board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	BK701	LV42882-001A	PUSH SWITCH		
	BK702	LV42881-001A	PUSH SWITCH		
	C 281	NCB31HK-331X	C CAPACITOR		
	C 282	NCB31HK-331X	C CAPACITOR		
	C 283	NCF31CZ-104X	C CAPACITOR		
	C 700	NCB31HK-102X	C CAPACITOR		
	C 701	NCB31HK-471X	C CAPACITOR		
	C 702	NCB31HK-471X	C CAPACITOR		
	C 703	NCB31HK-471X	C CAPACITOR		
	C 704	NCB31HK-471X	C CAPACITOR		
	C 705	NCB31HK-471X	C CAPACITOR		
	C 706	NCB31HK-471X	C CAPACITOR		
	C 708	NCB31HK-223X	C CAPACITOR		
	C 709	NCF31CZ-104X	C CAPACITOR		
	C 710	NCF31CZ-104X	C CAPACITOR		
	C 711	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 712	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 713	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 714	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 715	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 717	NCF31CZ-104X	C CAPACITOR		
	C 718	NCF31CZ-104X	C CAPACITOR		
	C 720	NCB31EK-223X	C CAPACITOR		
	CN242	QGB2510K1-10	CONNECTOR		
	CN252	QGB2510K1-10	CONNECTOR		
	CN604	QGB2510K1-13	CONNECTOR		
	CN611	QGB2510K1-13	CONNECTOR		
	CN701	QGF1205F1-13	CONNECTOR		
	CN703	QGA2001F1-03	CONNECTOR		
	CN713	QJK021-030603	SIN CR C-B WIRE		
	D 701	LO561MBL3-60QNP	LED		
	D 703	SLR-342VC-T	LED		
	D 705	SLR-342DC-T	LED		
	D 706	SLR-342DC-T	LED		
	D 708	SLR-342DC-T	LED		
	D 710	MA3082/H/-X	ZENER DIODE		
	DI701	QLF0101-001	FL TUBE		
	EP281	QNZ0136-001Z	EARTH PLATE		
	FW241	QUM134-15DGZ4	PARA RIBON WIRE		
	FW281	QUM213-18DGZ4	PARA RIBON WIRE		
	FW701	QUM134-05Z4Z4	RIBON WIRE	WITH FW701	
	FW702	QUM213-08Z4Z4	PARA RIBON WIRE	WITH FW702	
	FW703	QUM132-05Z4Z4	RIBON WIRE		
	IC701	MN101C35DKF	PANEL MICOM	PANEL MICOM	
	IC702	GP1UM281XK	IR DETECT UNIT		
	J 281	QNS0188-001	JACK		
	JS701	QSW0898-001	JOG VOLUME		
	PW701	QUB220-08HPDM	SIN TWIST WIRE		
	Q 700	KRC107S-X	DIGITAL.TR		
	Q 701	KRC107S-X	DIGITAL.TR		
	Q 702	KRA107S-X	TRANSISTOR		
	Q 703	KRA114S-X	TRANSISTOR		
	Q 706	KRA107S-X	TRANSISTOR		
	Q 708	KRA107S-X	TRANSISTOR		
	Q 710	KRA107S-X	TRANSISTOR		
	Q 711	KRA107S-X	TRANSISTOR		
	R 667	NRSA63J-0R0X	MG RESISTOR		
	R 668	NRSA63J-0R0X	MG RESISTOR		
	R 669	NRSA63J-0R0X	MG RESISTOR		
	R 701	NRSA63J-103X	MG RESISTOR		
	R 702	NRSA63J-102X	MG RESISTOR		
	R 703	NRSA63J-103X	MG RESISTOR		
	R 704	NRSA63J-102X	MG RESISTOR		
	R 705	NRSA63J-102X	MG RESISTOR		
	R 706	NRSA63J-122X	MG RESISTOR		
	R 707	NRSA63J-103X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 708	NRSA63J-102X	MG RESISTOR		
	R 709	NRSA63J-102X	MG RESISTOR		
	R 710	NRSA63J-122X	MG RESISTOR		
	R 711	NRSA63J-152X	MG RESISTOR		
	R 712	NRSA63J-222X	MG RESISTOR		
	R 713	NRSA63J-272X	MG RESISTOR		
	R 714	NRSA63J-103X	MG RESISTOR		
	R 715	NRSA63J-102X	MG RESISTOR		
	R 716	NRSA63J-102X	MG RESISTOR		
	R 717	NRSA63J-122X	MG RESISTOR		
	R 718	NRSA63J-152X	MG RESISTOR		
	R 719	NRSA63J-222X	MG RESISTOR		
	R 720	NRSA63J-272X	MG RESISTOR		
	R 721	NRSA63J-392X	MG RESISTOR		
	R 722	NRSA63J-103X	MG RESISTOR		
	R 723	NRSA63J-102X	MG RESISTOR		
	R 724	NRSA63J-102X	MG RESISTOR		
	R 725	NRSA63J-122X	MG RESISTOR		
	R 726	NRSA63J-152X	MG RESISTOR		
	R 727	NRSA63J-222X	MG RESISTOR		
	R 728	NRSA63J-272X	MG RESISTOR		
	R 729	NRSA63J-392X	MG RESISTOR		
	R 732	NRSA63J-103X	MG RESISTOR	FOR DV3	
	R 733	NRSA63J-103X	MG RESISTOR		
	R 734	NRSA63J-102X	MG RESISTOR	ALL	
	R 735	NRSA63J-102X	MG RESISTOR	E/U1/U2/A/D	
	R 741	NRSA63J-103X	MG RESISTOR	RX	
	R 743	NRSA63J-221X	MG RESISTOR		
	R 744	NRSA63J-222X	MG RESISTOR		
	R 745	NRSA63J-221X	MG RESISTOR		
	R 746	NRSA63J-221X	MG RESISTOR		
	R 747	NRSA63J-221X	MG RESISTOR		
	R 749	NRSA63J-221X	MG RESISTOR		
	R 750	NRSA63J-0R0X	MG RESISTOR		
	R 751	NRSA63J-221X	MG RESISTOR		
	R 752	NRSA63J-103X	MG RESISTOR		
	R 753	NRSA63J-103X	MG RESISTOR		
	R 754	NRSA63J-103X	MG RESISTOR		
	R 758	NRSA63J-221X	MG RESISTOR		
	R1291	NRSA63J-471X	MG RESISTOR		
	R1292	NRSA63J-471X	MG RESISTOR		
	R1701	NRSA63J-221X	MG RESISTOR		
	R1702	NRSA63J-221X	MG RESISTOR		
	R1703	NRSA63J-221X	MG RESISTOR		
	R1704	NRSA63J-221X	MG RESISTOR		
	R1705	NRSA63J-221X	MG RESISTOR		
	R1706	NRSA63J-221X	MG RESISTOR		
	R1710	NRSA63J-0R0X	MG RESISTOR		
	R1712	NRSA63J-0R0X	MG RESISTOR	FOR B/E	
	S 700	QSW0683-001Z	PUSH SWITCH		
	S 701	QSW0683-001Z	PUSH SWITCH		
	S 702	QSW0683-001Z	PUSH SWITCH		
	S 703	QSW0683-001Z	PUSH SWITCH		
	S 704	QSW0683-001Z	PUSH SWITCH		
	S 705	QSW0683-001Z	PUSH SWITCH		
	S 706	QSW0683-001Z	PUSH SWITCH		
	S 707	QSW0683-001Z	PUSH SWITCH		
	S 708	QSW0683-001Z	PUSH SWITCH		
	S 709	QSW0683-001Z	PUSH SWITCH		
	S 710	QSW0683-001Z	PUSH SWITCH		
	S 711	QSW0683-001Z	PUSH SWITCH		
	S 712	QSW0683-001Z	PUSH SWITCH		
	S 713	QSW0683-001Z	PUSH SWITCH		
	S 714	QSW0683-001Z	PUSH SWITCH		
	S 715	QSW0683-001Z	PUSH SWITCH		
	S 716	QSW0683-001Z	PUSH SWITCH		

■ **Electrical parts list (Front board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	S 717	QSW0683-001Z	PUSH SWITCH		
	S 718	QSW0683-001Z	PUSH SWITCH		
	S 719	QSW0683-001Z	PUSH SWITCH		
	S 720	QSW0683-001Z	PUSH SWITCH		
	S 721	QSW0683-001Z	PUSH SWITCH		
	S 722	QSW0683-001Z	PUSH SWITCH		
	S 723	QSW0683-001Z	PUSH SWITCH		
⚠	TH291	QAD0125-471	P THERMISTOR		
	X 701	QAX0246-001Z	C RESONATOR		

■ **Electrical parts list (DSP board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 601	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 602	NCF31CZ-104X	C CAPACITOR		
	C 605	NCB31HK-102X	C CAPACITOR		
	C 606	NCB31HK-102X	C CAPACITOR		
	C 607	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 608	NCF31CZ-104X	C CAPACITOR		
	C 609	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 610	NCF31CZ-104X	C CAPACITOR		
	C 611	NCF31CZ-104X	C CAPACITOR		
	C 612	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 613	NCB31CK-103X	C CAPACITOR		
	C 615	NCB31CK-103X	C CAPACITOR		
	C 616	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 617	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 618	NCB31CK-103X	C CAPACITOR		
	C 619	NCF31CZ-104X	C CAPACITOR		
	C 620	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 621	NCS31HJ-101X	C CAPACITOR		
	C 622	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 623	NCB31CK-103X	C CAPACITOR		
	C 624	NCF31AZ-105X	C CAPACITOR		
	C 625	NCF31AZ-105X	C CAPACITOR		
	C 626	NCF31AZ-105X	C CAPACITOR		
	C 627	NCS31HJ-471X	C CAPACITOR		
	C 628	NCF31AZ-105X	C CAPACITOR		
	C 629	NCS31HJ-101X	C CAPACITOR		
	C 631	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 632	NCB31CK-103X	C CAPACITOR		
	C 633	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 634	NCB31CK-103X	C CAPACITOR		
	C 635	NCB31AK-474X	C CAPACITOR		
	C 636	NCB31CK-103X	C CAPACITOR		
	C 637	NCS31HJ-101X	C CAPACITOR		
	C 638	NCS31HJ-121X	C CAPACITOR		
	C 639	NCF31CZ-104X	C CAPACITOR		
	C 640	NCF31CZ-104X	C CAPACITOR		
	C 641	NCF31CZ-104X	C CAPACITOR		
	C 642	NCB31CK-473X	C CAPACITOR		
	C 643	NCS31HJ-180X	C CAPACITOR		
	C 644	NCS31HJ-220X	C CAPACITOR		
	C 645	NCB31CK-103X	C CAPACITOR		
	C 646	NCF31CZ-104X	C CAPACITOR		
	C 647	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 648	NCB31CK-104X	C CAPACITOR		
	C 680	NCF31AZ-105X	C CAPACITOR		
	C 681	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 682	NCB31CK-103X	C CAPACITOR		
	C 683	NCS31HJ-101X	C CAPACITOR		
	C 684	NCS31HJ-101X	C CAPACITOR		
	C 685	NCB31CK-103X	C CAPACITOR		
	C 686	NCB31CK-103X	C CAPACITOR		
	C 687	NCB31CK-103X	C CAPACITOR		
	C 688	NCF31CZ-104X	C CAPACITOR		
	C 689	NCF31AZ-105X	C CAPACITOR		
	C 690	NCB31CK-103X	C CAPACITOR		
	C 691	NCB31CK-103X	C CAPACITOR		
	C 692	QTE1C06-476Z	E CAPACITOR		
	C 693	NCB31CK-103X	C CAPACITOR		
	C 694	QTE1C06-336Z	E CAPACITOR		
	C 695	NCB31CK-103X	C CAPACITOR		
	C 696	QTE1C06-336Z	E CAPACITOR		
	CN601	QGB2510J1-13	CONNECTOR		
	CN602	QGF1205C1-12	CONNECTOR		
	C2500	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C2503	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2504	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C2507	NCS31HJ-330X	C CAPACITOR		
	C2508	NCS31HJ-330X	C CAPACITOR		
	C2512	NCF31CZ-104X	C CAPACITOR		
	C2513	NCB31HK-122X	C CAPACITOR		
	C2514	NCB31HK-122X	C CAPACITOR		
	C2515	NCS31HJ-121X	C CAPACITOR		
	C2516	NCS31HJ-121X	C CAPACITOR		
	C2525	NCB31HK-102X	C CAPACITOR		
	C2526	NCB31HK-102X	C CAPACITOR		
	C2527	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2528	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2531	NCS31HJ-560X	C CAPACITOR		
	C2532	NCS31HJ-560X	C CAPACITOR		
	C2533	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2534	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2539	NCF31CZ-104X	C CAPACITOR		
	C2540	NCF31CZ-104X	C CAPACITOR		
	C2551	NCS31HJ-560X	C CAPACITOR		
	C2552	NCS31HJ-560X	C CAPACITOR		
	C2555	NCF31CZ-104X	C CAPACITOR		
	C2556	NCF31CZ-104X	C CAPACITOR		
	C2561	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2562	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2563	NCS31HJ-560X	C CAPACITOR		
	C2564	NCS31HJ-560X	C CAPACITOR		
	C2569	NCF31CZ-104X	C CAPACITOR		
	C2570	NCF31CZ-104X	C CAPACITOR		
	C2575	NCB31HK-272X	C CAPACITOR		
	C2576	NCB31HK-272X	C CAPACITOR		
	C2577	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2578	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2581	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2582	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C2583	NCS31HJ-560X	C CAPACITOR		
	C2584	NCS31HJ-560X	C CAPACITOR		
	C2585	NCF31CZ-104X	C CAPACITOR		
	C2586	NCF31CZ-104X	C CAPACITOR		
	C2587	NCS31HJ-560X	C CAPACITOR		
	C2588	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2589	NCF31CZ-104X	C CAPACITOR		
	C2590	NCF31CZ-104X	C CAPACITOR		
	C2592	NCB31HK-103X	C CAPACITOR		
	C2594	NCF31CZ-473X	C CAPACITOR		
	C2595	NCB31HK-272X	C CAPACITOR		
	C2597	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2598	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	D 621	MA111-X	DIODE		
	D 622	MA111-X	DIODE		
	D 631	MA111-X	DIODE		
	D 632	MA111-X	DIODE		
	EP601	E409182-001SM	GRAND TERMINAL		
	IC601	AK4527BVQP	IC		
	IC602	BA15218F-XE	IC		
	IC603	BA15218F-XE	IC		
	IC611	TC74HC4072AF-X	IC		
	IC612	TC74HC08AF-X	IC		
⚠	IC615	MM1563DF-X	IC		
	IC621	TC74HCU04AF-W	IC		
	IC631	TC9446F-025	IC		
	IC641	LP61L1024S-12-X	IC		
	IC651	BA15218F-XE	IC		
	IC652	BA15218F-XE	IC		
	IC661	BA15218F-XE	IC		
	IC671	BA15218F-XE	IC		
	IC672	BA15218F-XE	IC		
	IC681	UPD784215AGC167	IC(MICRO C ROM)		

■ **Electrical parts list (DSP board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	IC682	MM1613DN-X	IC		
	IC683	TC7SET32FU-X	IC		
	J 601	QNN0481-001	PIN JACK		
	K 601	NQR0269-004X	FERRITE BEADS		
	Q 631	DTC114YE-X	TRANSISTOR		
	Q 632	KRA104S-X	DIGITAL.TR		
	Q 671	2SD1048/6-7/-X	TRANSISTOR		
	Q 672	DTC114YE-X	TRANSISTOR		
	Q 673	KRA104S-X	DIGITAL.TR		
	Q 681	DTC114YE-X	TRANSISTOR		
	Q2501	KRA104S-X	DIGITAL.TR		
	Q2521	2SC3576-JVC-T	TRANSISTOR		
	Q2522	2SC3576-JVC-T	TRANSISTOR		
	Q2561	2SC3576-JVC-T	TRANSISTOR		
	Q2562	2SC3576-JVC-T	TRANSISTOR		
	Q2581	2SC3576-JVC-T	TRANSISTOR		
	Q2582	2SC3576-JVC-T	TRANSISTOR		
	R 601	NRSA63J-473X	MG RESISTOR		
	R 602	NRSA63J-473X	MG RESISTOR		
	R 603	NRSA63J-221X	MG RESISTOR		
	R 604	NRSA63J-473X	MG RESISTOR		
	R 605	NRSA63J-221X	MG RESISTOR		
	R 606	NRSA63J-221X	MG RESISTOR		
	R 607	NRSA63J-103X	MG RESISTOR		
	R 608	NRSA63J-103X	MG RESISTOR		
	R 611	NRSA63J-101X	MG RESISTOR		
	R 613	NRSA63J-0R0X	MG RESISTOR		
	R 615	NRSA63J-103X	MG RESISTOR		
	R 619	NRSA63J-103X	MG RESISTOR		
	R 620	NRSA63J-103X	MG RESISTOR		
	R 621	NRSA63J-750X	MG RESISTOR		
	R 622	NRSA63J-221X	MG RESISTOR		
	R 623	NRSA63J-472X	MG RESISTOR		
	R 624	NRSA63J-333X	MG RESISTOR		
	R 631	NRSA63J-221X	MG RESISTOR		
	R 632	NRSA63J-472X	MG RESISTOR		
	R 633	NRSA63J-221X	MG RESISTOR		
	R 634	NRSA63J-221X	MG RESISTOR		
	R 635	NRSA63J-221X	MG RESISTOR		
	R 636	NRSA63J-221X	MG RESISTOR		
	R 637	NRSA63J-221X	MG RESISTOR		
	R 638	NRSA63J-103X	MG RESISTOR		
	R 639	NRSA63F-102X	MG RESISTOR		
	R 640	NRSA63J-101X	MG RESISTOR		
	R 641	NRSA63J-102X	MG RESISTOR		
	R 642	NRSA63J-563X	MG RESISTOR		
	R 643	NRSA63F-103X	MG RESISTOR		
	R 644	NRSA63J-472X	MG RESISTOR		
	R 645	NRSA63J-103X	MG RESISTOR		
	R 646	NRSA63J-225X	MG RESISTOR		
	R 651	NRSA63J-0R0X	MG RESISTOR		
	R 653	NRSA63J-0R0X	MG RESISTOR		
	R 661	NRSA63J-0R0X	MG RESISTOR		
	R 662	NRSA63J-0R0X	MG RESISTOR		
	R 663	NRSA63J-0R0X	MG RESISTOR		
	R 671	NRSA63J-103X	MG RESISTOR		
	R 672	NRSA63J-105X	MG RESISTOR		
	R 676	NRSA63J-103X	MG RESISTOR		
	R 679	NRSA63J-103X	MG RESISTOR		
	R 680	NRSA63J-103X	MG RESISTOR		
	R 681	NRSA63J-0R0X	MG RESISTOR		
	R 682	NRSA63J-0R0X	MG RESISTOR		
	R 683	NRSA63J-822X	MG RESISTOR		
	R 684	NRSA63J-432X	MG RESISTOR		
	R 685	NRSA63J-103X	MG RESISTOR		
	R 686	NRSA63J-822X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 687	NRSA63J-432X	MG RESISTOR		
	R 688	NRSA63J-822X	MG RESISTOR		
	R 689	NRSA63J-432X	MG RESISTOR		
	R 690	NRSA63J-822X	MG RESISTOR		
	R 691	NRSA63J-432X	MG RESISTOR		
	R 692	NRSA63J-221X	MG RESISTOR		
	R 693	NRSA63J-221X	MG RESISTOR		
	R 694	NRSA63J-221X	MG RESISTOR		
	R 695	NRSA63J-221X	MG RESISTOR		
	R 696	NRSA63J-221X	MG RESISTOR		
	R 697	NRSA63J-221X	MG RESISTOR		
	R 698	NRSA63J-221X	MG RESISTOR		
	R 699	NRSA63J-221X	MG RESISTOR		
	R2500	NRSA63J-102X	MG RESISTOR		
	R2501	NRSA63J-104X	MG RESISTOR		
	R2502	NRSA63J-104X	MG RESISTOR		
	R2507	NRSA63J-223X	MG RESISTOR		
	R2508	NRSA63J-223X	MG RESISTOR		
	R2509	NRSA63J-223X	MG RESISTOR		
	R2510	NRSA63J-223X	MG RESISTOR		
	R2511	NRSA63J-103X	MG RESISTOR		
	R2512	NRSA63J-103X	MG RESISTOR		
	R2513	NRSA63J-103X	MG RESISTOR		
	R2514	NRSA63J-103X	MG RESISTOR		
	R2515	NRSA63J-103X	MG RESISTOR		
	R2516	NRSA63J-103X	MG RESISTOR		
	R2517	NRSA63J-0R0X	MG RESISTOR		
	R2518	NRSA63J-0R0X	MG RESISTOR		
	R2519	NRSA63J-331X	MG RESISTOR		
	R2520	NRSA63J-331X	MG RESISTOR		
	R2521	NRSA63J-331X	MG RESISTOR		
	R2522	NRSA63J-331X	MG RESISTOR		
	R2525	NRSA63J-102X	MG RESISTOR		
	R2526	NRSA63J-102X	MG RESISTOR		
	R2527	NRSA63J-104X	MG RESISTOR		
	R2528	NRSA63J-104X	MG RESISTOR		
	R2529	NRSA63J-103X	MG RESISTOR		
	R2530	NRSA63J-103X	MG RESISTOR		
	R2531	NRSA63J-752X	MG RESISTOR		
	R2532	NRSA63J-752X	MG RESISTOR		
	R2533	NRSA63J-103X	MG RESISTOR		
	R2534	NRSA63J-103X	MG RESISTOR		
	R2535	NRSA63J-103X	MG RESISTOR		
	R2536	NRSA63J-103X	MG RESISTOR		
	R2537	NRSA63J-104X	MG RESISTOR		
	R2538	NRSA63J-104X	MG RESISTOR		
	R2550	NRSA63J-272X	MG RESISTOR		
	R2551	NRSA63J-103X	MG RESISTOR		
	R2552	NRSA63J-103X	MG RESISTOR		
	R2553	NRSA63J-153X	MG RESISTOR		
	R2554	NRSA63J-153X	MG RESISTOR		
	R2555	NRSA63J-752X	MG RESISTOR		
	R2556	NRSA63J-752X	MG RESISTOR		
	R2557	NRSA63J-103X	MG RESISTOR		
	R2558	NRSA63J-273X	MG RESISTOR		
	R2560	NRSA63J-105X	MG RESISTOR		
	R2561	NRSA63J-104X	MG RESISTOR		
	R2562	NRSA63J-104X	MG RESISTOR		
	R2563	NRSA63J-103X	MG RESISTOR		
	R2564	NRSA63J-103X	MG RESISTOR		
	R2565	NRSA63J-202X	MG RESISTOR		
	R2566	NRSA63J-202X	MG RESISTOR		
	R2567	NRSA63J-103X	MG RESISTOR		
	R2568	NRSA63J-103X	MG RESISTOR		
	R2575	NRSA63J-102X	MG RESISTOR		
	R2576	NRSA63J-102X	MG RESISTOR		

■ **Electrical parts list (DSP board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	R2577	NRSA63J-104X	MG RESISTOR		
	R2578	NRSA63J-104X	MG RESISTOR		
	R2581	NRSA63J-104X	MG RESISTOR		
	R2582	NRSA63J-104X	MG RESISTOR		
	R2583	NRSA63J-123X	MG RESISTOR		
	R2584	NRSA63J-223X	MG RESISTOR		
	R2585	NRSA63J-302X	MG RESISTOR		
	R2586	NRSA63J-332X	MG RESISTOR		
	R2587	NRSA63J-103X	MG RESISTOR		
	R2588	NRSA63J-103X	MG RESISTOR		
	R2589	NRSA63J-104X	MG RESISTOR		
	R2590	NRSA63J-333X	MG RESISTOR		
	R2592	NRSA63J-333X	MG RESISTOR		
	R2594	NRSA63J-333X	MG RESISTOR		
	R2595	NRSA63J-102X	MG RESISTOR		
	R2596	NRSA63J-102X	MG RESISTOR		
	R2597	NRSA63J-104X	MG RESISTOR		
	R2598	NRSA63J-104X	MG RESISTOR		
	UN661	GP1FA351RZ	OPT RECEIVER	C/D	
	UN662	GP1FA351TZ	OPT TRANSMITTER	C/D	
	X 631	QAX0722-001Z	CRYSTAL		
	X 681	QAX0719-001Z	1COSCIALLATOR		

■ **Electrical parts list (DVD loading main board) Block No. 06**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 105	NEA70JM-476X	E.CAPACITOR		
	C 106	NEA70JM-476X	E.CAPACITOR		
	C 109	NCB31CK-104X	C CAPACITOR		
	C 110	NCS31HJ-221X	C.CAPA. C.M		
	C 111	NCB31CK-104X	C CAPACITOR		
	C 112	NCB31CK-104X	C CAPACITOR		
	C 113	NEA70JM-226X	E CAPACITOR		
	C 115	NCB31CK-104X	C CAPACITOR		
	C 116	NCB31CK-104X	C CAPACITOR		
	C 117	NCB31CK-473X	C CAPACITOR		
	C 118	NCB31CK-273X	C CAPACITOR		
	C 119	NCB31HK-561X	C CAPACITOR		
	C 120	NCB31HK-561X	C CAPACITOR		
	C 121	NCB31CK-104X	C CAPACITOR		
	C 122	NCS31HJ-120X	C.CAPA. C.M		
	C 123	NCB31CK-104X	C CAPACITOR		
	C 124	NCS31HJ-470X	C.CAPA. C.M		
	C 125	NCB31HK-271X	C CAPACITOR		
	C 126	NCB31CK-104X	C CAPACITOR		
	C 127	NCB31CK-104X	C CAPACITOR		
	C 128	NCB31CK-104X	C CAPACITOR		
	C 129	NCB31HK-472X	C CAPACITOR		
	C 135	NEA70JM-476X	E.CAPACITOR		
	C 137	NEA70GM-476X	E.CAPA. C.M.		
	C 138	NCB31CK-104X	C CAPACITOR		
	C 139	NCB31CK-104X	C CAPACITOR		
	C 141	NCB31CK-104X	C CAPACITOR		
	C 142	NCB31CK-104X	C CAPACITOR		
	C 143	NCB31CK-104X	C CAPACITOR		
	C 144	NCB31CK-103X	C CAPACITOR		
	C 146	NCB31CK-104X	C CAPACITOR		
	C 201	NEA70JM-226X	E CAPACITOR		
	C 203	NCB31CK-104X	C CAPACITOR		
	C 204	NCB31CK-104X	C CAPACITOR		
	C 205	NCS31HJ-121X	C CAPACITOR		
	C 207	NCB31HK-391X	C CAPACITOR		
	C 208	NCB31HK-391X	C CAPACITOR		
	C 211	NCB31HK-223X	C CAPACITOR		
	C 212	NCB31CK-103X	C CAPACITOR		
	C 215	NCB31CK-104X	C CAPACITOR		
	C 216	NCB30JK-105X	C CAPACITOR		
	C 217	NCB31CK-104X	C CAPACITOR		
	C 218	NCB30JK-105X	C CAPACITOR		
	C 251	NCB31CK-104X	C CAPACITOR		
	C 252	NEA71AM-336X	E CAPACITOR		
	C 253	NCB31CK-104X	C CAPACITOR		
	C 255	NCB31CK-153X	C CAPACITOR		
	C 256	NCB31CK-104X	C CAPACITOR		
	C 257	NCB31CK-104X	C CAPACITOR		
	C 258	NCB31CK-104X	C CAPACITOR		
	C 259	NCB31CK-104X	C CAPACITOR		
	C 260	NCB31CK-104X	C CAPACITOR		
	C 261	NCB31CK-104X	C CAPACITOR		
	C 262	NCB31CK-104X	C CAPACITOR		
	C 263	NCB31CK-104X	C CAPACITOR		
	C 264	NCB31CK-103X	C CAPACITOR		
	C 301	NCB31CK-104X	C CAPACITOR		
	C 302	NCB31CK-104X	C CAPACITOR		
	C 303	NCB31CK-104X	C CAPACITOR		
	C 304	NEA70GM-107X	E CAPACITOR		
	C 306	NEA70GM-107X	E CAPACITOR		
	C 308	NEA70GM-107X	E CAPACITOR		
	C 310	NCB31CK-104X	C CAPACITOR		
	C 311	NCB31HK-561X	C CAPACITOR		
	C 312	NCB31HK-561X	C CAPACITOR		
	C 313	NCB31HK-561X	C CAPACITOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	C 314	NCB31HK-331X	C CAPACITOR		
	C 315	NCB31HK-471X	C CAPACITOR		
	C 316	NCB31HK-271X	C CAPACITOR		
	C 317	NCS31HJ-121X	C CAPACITOR		
	C 318	NCB31CK-104X	C CAPACITOR		
	C 319	NCB31HK-102X	C CAPACITOR		
	C 320	NCB31HK-102X	C CAPACITOR		
	C 321	NCB31HK-102X	C CAPACITOR		
	C 322	NCB31HK-562X	C CAPACITOR		
	C 323	NCB31HK-102X	C CAPACITOR		
	C 324	NCB31CK-104X	C CAPACITOR		
	C 325	NCS31HJ-470X	C.CAPA. C.M		
	C 326	NCB31CK-183X	C CAPACITOR		
	C 327	NCB31HK-102X	C CAPACITOR		
	C 328	NCB31CK-104X	C CAPACITOR		
	C 329	NCB31CK-103X	C CAPACITOR		
	C 330	NCB31CK-104X	C CAPACITOR		
	C 331	NCB31CK-103X	C CAPACITOR		
	C 332	NCB21CK-105X	C CAPACITOR		
	C 333	NCB31CK-104X	C CAPACITOR		
	C 334	NCB31CK-104X	C CAPACITOR		
	C 337	NCB31CK-104X	C CAPACITOR		
	C 338	NCB31CK-104X	C CAPACITOR		
	C 339	NCB31CK-104X	C CAPACITOR		
	C 340	NCB31CK-104X	C CAPACITOR		
	C 341	NCB31CK-104X	C CAPACITOR		
	C 342	NCB31CK-104X	C CAPACITOR		
	C 343	NCB31CK-104X	C CAPACITOR		
	C 344	NCB31CK-104X	C CAPACITOR		
	C 345	NCB31CK-104X	C CAPACITOR		
	C 346	NCB31CK-104X	C CAPACITOR		
	C 347	NCB31CK-104X	C CAPACITOR		
	C 348	NCB31CK-104X	C CAPACITOR		
	C 349	NCB31CK-104X	C CAPACITOR		
	C 350	NCB31CK-104X	C CAPACITOR		
	C 401	NEA70GM-476X	E.CAPA. C.M.		
	C 402	NCB31CK-104X	C CAPACITOR		
	C 403	NCB31CK-104X	C CAPACITOR		
	C 404	NCB31CK-104X	C CAPACITOR		
	C 405	NCB31CK-104X	C CAPACITOR		
	C 406	NCB31CK-104X	C CAPACITOR		
	C 407	NCB31CK-104X	C CAPACITOR		
	C 450	NCB31CK-104X	C CAPACITOR		
	C 501	NCB31CK-104X	C CAPACITOR		
	C 506	NCS31HJ-150X	C CAPACITOR		
	C 507	NCS31HJ-180X	C CAPACITOR		
	C 511	NEA70GM-476X	E.CAPA. C.M.		
	C 512	NCB31CK-104X	C CAPACITOR		
	C 514	NCB31CK-104X	C CAPACITOR		
	C 515	NCB31CK-104X	C CAPACITOR		
	C 516	NCB31CK-104X	C CAPACITOR		
	C 517	NCB31CK-104X	C CAPACITOR		
	C 518	NCB31CK-104X	C CAPACITOR		
	C 519	NCB31CK-104X	C CAPACITOR		
	C 520	NCB31CK-104X	C CAPACITOR		
	C 523	NCB31CK-104X	C CAPACITOR		
	C 524	NEA70GM-476X	E.CAPA. C.M.		
	C 527	NEA70GM-476X	E.CAPA. C.M.		
	C 528	NCB31CK-104X	C CAPACITOR		
	C 529	NCB31CK-104X	C CAPACITOR		
	C 531	NCB31CK-104X	C CAPACITOR		
	C 532	NCB31CK-104X	C CAPACITOR		
	C 533	NCB31CK-104X	C CAPACITOR		
	C 534	NCB31CK-104X	C CAPACITOR		
	C 535	NCB31CK-104X	C CAPACITOR		
	C 536	NCB31CK-104X	C CAPACITOR		

■ **Electrical parts list (DVD loading main board) Block No. 06**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 539	NCB31CK-104X	C CAPACITOR		
	C 540	NCB31CK-104X	C CAPACITOR		
	C 541	NCB31CK-104X	C CAPACITOR		
	C 542	NCB31CK-104X	C CAPACITOR		
	C 543	NCB31CK-104X	C CAPACITOR		
	C 544	NCB31CK-104X	C CAPACITOR		
	C 545	NCB31CK-104X	C CAPACITOR		
	C 547	NCB31CK-104X	C CAPACITOR		
	C 548	NCB31CK-104X	C CAPACITOR		
	C 549	NEA70GM-476X	E.CAPA. C.M.		
	C 550	NCB31CK-104X	C CAPACITOR		
	C 554	NCB31CK-104X	C CAPACITOR		
	C 555	NCB31CK-104X	C CAPACITOR		
	C 557	NCB31CK-104X	C CAPACITOR		
	C 558	NCB11CK-105X	C CAPACITOR		
	C 569	NCB31CK-104X	C CAPACITOR		
	C 571	NEA70GM-476X	E.CAPA. C.M.		
	C 572	NCB31CK-104X	C CAPACITOR		
	C 573	NEA70GM-227X	E.CAPA, C.M		
	C 578	NCB31CK-104X	C CAPACITOR		
	C 580	NEA70GM-476X	E.CAPA. C.M.		
	C 581	NEA70GM-227X	E.CAPA, C.M		
	C 582	NEA70GM-476X	E.CAPA. C.M.		
	C 601	NEA70GM-476X	E.CAPA. C.M.		
	C 602	NEA70GM-476X	E.CAPA. C.M.		
	C 618	NCB31CK-104X	C CAPACITOR		
	C 619	NCB31CK-104X	C CAPACITOR		
	C 902	NCB31CK-104X	C CAPACITOR		
	C 904	NCB31CK-104X	C CAPACITOR		
	C 906	NCB31CK-104X	C CAPACITOR		
	C 908	NCB31CK-104X	C CAPACITOR		
	C 992	NCB31CK-104X	C CAPACITOR		
	C 993	NCB31CK-104X	C CAPACITOR		
	C 994	NCB31CK-104X	C CAPACITOR		
	C 995	NCB31CK-104X	C CAPACITOR		
	C 996	NCB31CK-104X	C CAPACITOR		
	C 997	NCB31CK-104X	C CAPACITOR		
	C 998	NCB31CK-104X	C CAPACITOR		
	CN101	QGF0522F1-30W	FFC CONNECTOR	PU	
	CN201	QGF1016F2-15W	CONNECTOR	SP&STP	
	CN202	QGF1016F2-06W	CONNECTOR	LOADER	
	CN502	QGB2027L1-26X	CONNECTOR	SYSTEM	
	CN503	QGB2027L1-26X	CONNECTOR	VIDEO	
	D 101	RB521S-30-X	SB DIODE		
	D 202	1SS355-X	DIODE C.M		
	IC101	AN8703FH-V	IC		
	IC201	BA5983FM-X	IC		
	IC251	BA6664FM-X	LSI		
	IC301	MN103S26EGA	IC		
	IC401	MN102L62GLF3	IC		
	IC451	S-93C66AFJ-X	IC		
	IC501	NDV8601VWA-BB	IC		
	IC505	K4S643232E-TC60	IC		
	IC509	SST39VF160-7CEK	IC (FLASH)		
	IC510	AK93C65AF-X	IC C.M		
	IC511	LM1117MP1.8-X	IC		
	IC512	74LCX373MTC-X	IC(DIGITAL)		
	IC513	74LCX373MTC-X	IC(DIGITAL)		
	IC521	MM74HCT32MTC-X	IC		
	IC522	74LCX32MTC-X	IC(DIGITAL)		
	IC523	NC7SZ125P5-X	IC(DIGITAL)		
	K 101	NQR0007-002X	FERRITE BEADS		
	K 301	NQR0007-002X	FERRITE BEADS		
	K 302	NQR0007-002X	FERRITE BEADS		
	K 303	NQR0007-002X	FERRITE BEADS		
	K 304	NQR0007-002X	FERRITE BEADS		

⚠	Item	Parts number	Parts name	Remarks	Area
	K 401	NQR0007-002X	FERRITE BEADS		
	K 501	NQR0007-002X	FERRITE BEADS		
	K 504	NQR0007-002X	FERRITE BEADS		
	K 505	NQR0007-002X	FERRITE BEADS		
	K 507	NQR0007-002X	FERRITE BEADS		
	K 508	NQR0007-002X	FERRITE BEADS		
	K 509	NQR0007-002X	FERRITE BEADS		
	K 510	NQR0007-002X	FERRITE BEADS		
	K 513	NQR0007-002X	FERRITE BEADS		
	K 515	NRSA02J-0R0X	MG RESISTOR		
	K 518	NRSA02J-0R0X	MG RESISTOR		
	K 519	NQR0007-002X	FERRITE BEADS		
	K 520	NQR0007-002X	FERRITE BEADS		
	K 556	NQR0129-002X	FERRITE BEADS		
	K 557	NQR0129-002X	FERRITE BEADS		
	K 558	NQR0129-002X	FERRITE BEADS		
	K 559	NQR0129-002X	FERRITE BEADS		
	K 560	NRSA02J-0R0X	MG RESISTOR		
	K 561	NRSA02J-0R0X	MG RESISTOR		
	K 562	NRSA02J-0R0X	MG RESISTOR		
	K 563	NRSA02J-0R0X	MG RESISTOR		
	K 564	NRSA02J-0R0X	MG RESISTOR		
	K 565	NRSA02J-0R0X	MG RESISTOR		
	K 566	NRSA02J-0R0X	MG RESISTOR		
	K 567	NQR0007-002X	FERRITE BEADS		
	K 568	NRSA02J-0R0X	MG RESISTOR		
	K 569	NQR0007-002X	FERRITE BEADS		
	K 570	NRSA02J-0R0X	MG RESISTOR		
	K 571	NQR0007-002X	FERRITE BEADS		
	K 572	NRSA02J-0R0X	MG RESISTOR		
	K 573	NQR0007-002X	FERRITE BEADS		
	K 574	NRSA02J-0R0X	MG RESISTOR		
	K 575	NRSA02J-0R0X	MG RESISTOR		
	K 576	NRSA02J-0R0X	MG RESISTOR		
	K 577	NQR0007-002X	FERRITE BEADS		
	K 578	NRSA02J-0R0X	MG RESISTOR		
	K 579	NRSA02J-0R0X	MG RESISTOR		
	K 582	NRSA02J-0R0X	MG RESISTOR		
	K 586	NRSA02J-0R0X	MG RESISTOR		
	L 501	NQL044K-100X	INDUCTOR		
	Q 101	KTA1001/Y/-X	TRANSISTOR		
	Q 102	KTA1001/Y/-X	TRANSISTOR		
	Q 103	DTA144EE-X	DIGI TRANSISTOR		
	Q 501	2SB1424/QR/-W	TRANSISTOR		
	Q 502	2SC2412K/RS/-X	CHIP TRANSISTOR		
	R 101	NRSA63J-333X	MG RESISTOR		
	R 102	NRSA63J-223X	MG RESISTOR		
	R 103	NRSA63J-223X	MG RESISTOR		
	R 104	NRS125J-270X	MG RESISTOR		
	R 105	NRS125J-270X	MG RESISTOR		
	R 106	NRSA63J-273X	MG RESISTOR		
	R 107	NRSA63J-273X	MG RESISTOR		
	R 108	NRSA63J-222X	MG RESISTOR		
	R 109	NRSA63J-182X	MG RESISTOR		
	R 110	NRSA63J-333X	MG RESISTOR		
	R 111	NRVA63D-243X	RES. C.M		
	R 112	NRSA63J-822X	MG RESISTOR		
	R 113	NRSA63J-103X	MG RESISTOR		
	R 114	NRSA63J-0R0X	MG RESISTOR		
	R 115	NRSA63J-0R0X	MG RESISTOR		
	R 116	NRSA63J-0R0X	MG RESISTOR		
	R 117	NRSA63J-0R0X	MG RESISTOR		
	R 119	NRSA63J-2R2X	MG RESISTOR		
	R 120	NRSA63J-2R2X	MG RESISTOR		
	R 125	NRSA63J-105X	MG RESISTOR		
	R 126	NRSA63J-105X	MG RESISTOR		

■ **Electrical parts list (DVD loading main board) Block No. 06**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 127	NRSA63J-222X	MG RESISTOR		
	R 128	NRS125J-1R0X	MG RESISTOR		
	R 129	NRS125J-1R0X	MG RESISTOR		
	R 130	NRSA63J-182X	MG RESISTOR		
	R 201	NRSA63J-470X	MG RESISTOR		
	R 202	NRS125J-1R0X	MG RESISTOR		
	R 203	NRSA63J-0R0X	MG RESISTOR		
	R 204	NRSA63J-273X	MG RESISTOR		
	R 205	NRSA63J-273X	MG RESISTOR		
	R 206	NRSA63J-303X	MG RESISTOR		
	R 207	NRSA63J-473X	MG RESISTOR		
	R 208	NRSA63J-223X	MG RESISTOR		
	R 209	NRSA63J-223X	MG RESISTOR		
	R 210	NRSA63J-242X	MG RESISTOR		
	R 211	NRSA63J-242X	MG RESISTOR		
	R 212	NRSA63J-103X	MG RESISTOR		
	R 213	NRSA63J-103X	MG RESISTOR		
	R 214	NRSA63J-103X	MG RESISTOR		
	R 215	NRSA63J-103X	MG RESISTOR		
	R 216	NRSA63J-912X	MG RESISTOR		
	R 217	NRSA63J-201X	MG RESISTOR		
	R 218	NRSA63J-221X	MG RESISTOR		
	R 219	NRSA63J-183X	MG RESISTOR		
	R 220	NRSA63J-243X	MG RESISTOR		
	R 221	NRSA63J-682X	MG RESISTOR		
	R 222	NRSA63J-103X	MG RESISTOR		
	R 223	NRSA63J-912X	MG RESISTOR		
	R 224	NRSA63J-103X	MG RESISTOR		
	R 251	NRS125J-R47X	MG RESISTOR		
	R 252	NRSA63J-2R2X	MG RESISTOR		
	R 253	NRSA63J-0R0X	MG RESISTOR		
	R 254	NRSA63J-203X	MG RESISTOR		
	R 255	NRSA63J-103X	MG RESISTOR		
	R 256	NRSA63J-470X	MG RESISTOR		
	R 258	NRSA63J-0R0X	MG RESISTOR		
	R 259	NRSA63J-103X	MG RESISTOR		
	R 301	NRSA63J-473X	MG RESISTOR		
	R 302	NRSA63J-473X	MG RESISTOR		
	R 303	NRSA63J-473X	MG RESISTOR		
	R 304	NRSA63J-473X	MG RESISTOR		
	R 305	NRSA63J-473X	MG RESISTOR		
	R 306	NRSA63J-473X	MG RESISTOR		
	R 307	NRSA63J-473X	MG RESISTOR		
	R 308	NRSA63J-0R0X	MG RESISTOR		
	R 309	NRSA63J-473X	MG RESISTOR		
	R 313	NRSA63J-473X	MG RESISTOR		
	R 317	NRSA63J-473X	MG RESISTOR		
	R 319	NRSA63J-473X	MG RESISTOR		
	R 320	NRSA63J-105X	MG RESISTOR		
	R 321	NRSA63J-473X	MG RESISTOR		
	R 323	NRSA63J-473X	MG RESISTOR		
	R 324	NRSA63J-473X	MG RESISTOR		
	R 325	NRSA63J-123X	MG RESISTOR		
	R 326	NRSA63J-473X	MG RESISTOR		
	R 327	NRSA63J-105X	MG RESISTOR		
	R 328	NRSA63J-183X	MG RESISTOR		
	R 329	NRSA63J-473X	MG RESISTOR		
	R 330	NRSA63J-473X	MG RESISTOR		
	R 331	NRSA63J-473X	MG RESISTOR		
	R 332	NRSA63J-102X	MG RESISTOR		
	R 333	NRSA63J-183X	MG RESISTOR		
	R 334	NRSA63J-102X	MG RESISTOR		
	R 336	NRSA63J-273X	MG RESISTOR		
	R 337	NRSA63J-273X	MG RESISTOR		
	R 338	NRSA63J-472X	MG RESISTOR		
	R 339	NRSA63J-472X	MG RESISTOR		
	R 340	NRSA63J-103X	MG RESISTOR		
	R 341	NRSA63J-562X	MG RESISTOR		
	R 402	NRSA63J-472X	MG RESISTOR		
	R 411	NRSA63J-472X	MG RESISTOR		
	R 413	NRSA63J-472X	MG RESISTOR		
	R 414	NRSA63J-472X	MG RESISTOR		
	R 421	NRSA63J-0R0X	MG RESISTOR		
	R 422	NRSA63J-472X	MG RESISTOR		
	R 423	NRSA63J-472X	MG RESISTOR		
	R 424	NRSA63J-472X	MG RESISTOR		
	R 427	NRSA63J-0R0X	MG RESISTOR		
	R 428	NRSA63J-472X	MG RESISTOR		
	R 501	NRSA63J-470X	MG RESISTOR		
	R 512	NRSA63J-332X	MG RESISTOR		
	R 521	NRSA63J-103X	MG RESISTOR		
	R 531	NRSA63J-562X	MG RESISTOR		
	R 532	NRSA63J-392X	MG RESISTOR		
	R 533	NRSA63J-102X	MG RESISTOR		
	R 534	NRSA63J-561X	MG RESISTOR		
	R 535	NRSA63J-333X	MG RESISTOR		
	R 536	NRSA63J-102X	MG RESISTOR		
	R 541	NRSA63J-0R0X	MG RESISTOR		
	R 543	NRSA63J-0R0X	MG RESISTOR		
	R 544	NRSA63J-471X	MG RESISTOR		
	R 547	NRSA63J-0R0X	MG RESISTOR		
	R 548	NRSA63J-471X	MG RESISTOR		
	R 549	NRSA63J-471X	MG RESISTOR		
	R 550	NRSA63J-471X	MG RESISTOR		
	R 551	NRSA63J-0R0X	MG RESISTOR		
	R 552	NRSA63J-0R0X	MG RESISTOR		
	R 553	NRSA63J-0R0X	MG RESISTOR		
	R 565	NRVA63D-622X	CMF RESISTOR		
	R 566	NRVA63D-132X	MG.RESI C.M		
	R 570	NRSA63J-100X	MG RESISTOR		
	R 573	NRSA63J-162X	MG RESISTOR		
	R 574	NRSA63J-162X	MG RESISTOR		
	R 575	NRSA63J-471X	MG RESISTOR		
	R 576	NRSA63J-471X	MG RESISTOR		
	R 578	NRSA63J-471X	MG RESISTOR		
	R 579	NRSA63J-471X	MG RESISTOR		
	R 580	NRSA63J-471X	MG RESISTOR		
	R 583	NRSA63J-471X	MG RESISTOR		
	R 584	NRSA63J-332X	MG RESISTOR		
	R 608	NRSA63J-103X	MG RESISTOR		
	R 655	NRSA63J-0R0X	MG RESISTOR		
	R 738	NRSA63J-152X	MG RESISTOR		
	R 739	NRSA63J-0R0X	MG RESISTOR		
	R 740	NRSA63J-0R0X	MG RESISTOR		
	R 991	NRSA63J-220X	MG RESISTOR		
	X 301	NAX0542-001X	C RESONATOR		
	X 401	NAX0543-001X	C RESONATOR		
	X 571	NAX0513-001X	CRYSTAL		

■ **Electrical parts list (DVD loading switch board) Block No. 07**

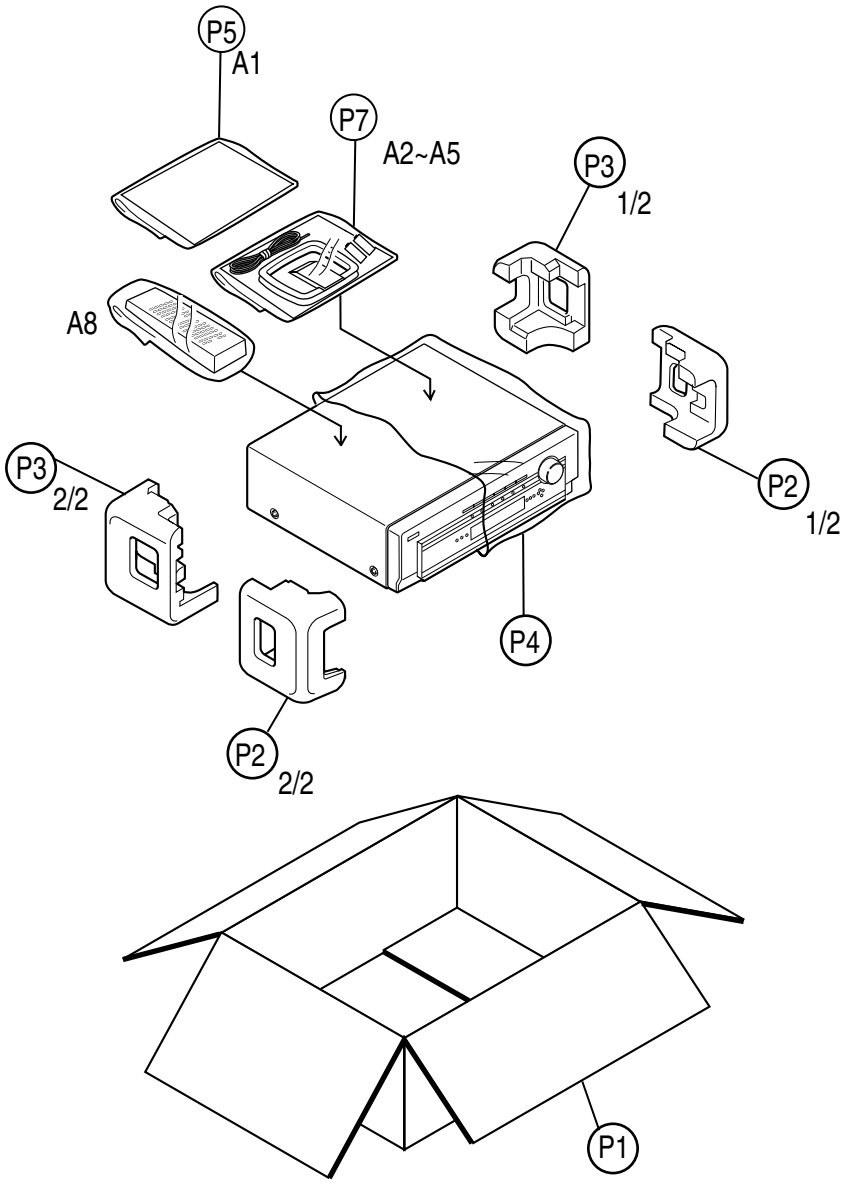
⚠	Item	Parts number	Parts name	Remarks	Area
	CN 1	QGF1016F3-06	CONNECTOR		
	S 1	QSW0910-002	SWITCH	DW DET SW	
	S 2	QSW0910-002	SWITCH	OC DET SW	

< M E M O >

Packing materials and accessories parts list

EN version

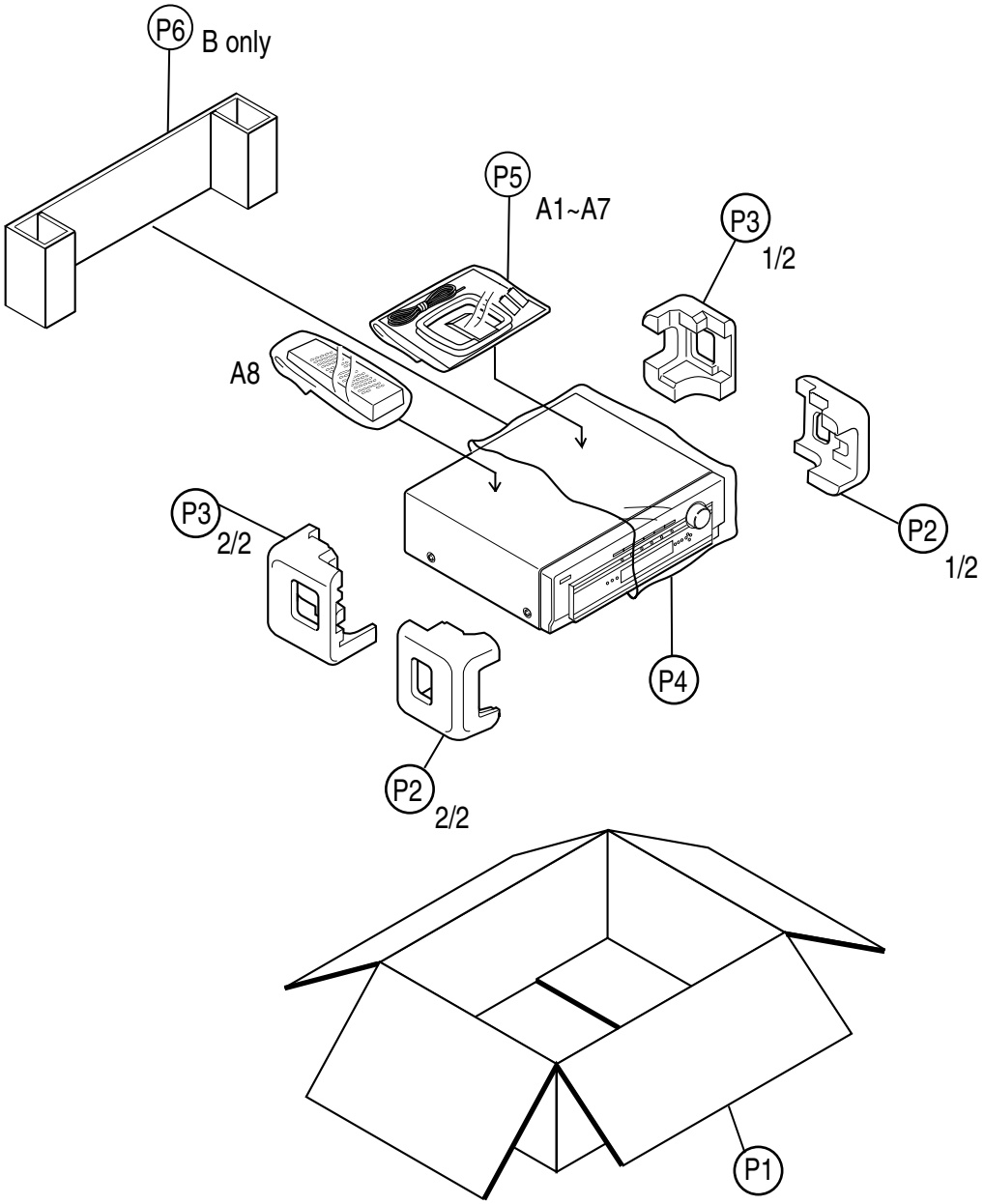
Block No. M 3 M M
Block No. M 5 M M



Packing materials and accessories parts list

B,E version

Block No. M 3 M M
Block No. M 5 M M



■ Parts list (Packing)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	LV33697-002A	CARTON BOX	1		E,EN
		LV33697-021A	CARTON BOX	1		B
	P 2	LV21223-002A	CUSHION(F)	1		
	P 3	LV21224-002A	CUSHION(R)	1		
	P 4	QPC06507015P	POLY BAG	1	FOR SET	
	P 5	QPA02704003P	POLY BAG	1		EN
		QPA02503505P	POLY BAG	1	FOR INST	E,B
	P 6	LV32804-001A	PACKING SHEET	1		B
	P 7	QPA01702503P	POLY BAG	1		EN

■ Parts list (Accessories)

Block No. M5MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0875-010A	INST.BOOK	1	GER,FRE,DUT	E
		LVT0875-009A	INST.BOOK	1	ENG	B
		LVT0875-011A	INST.BOOK	1	SWE,FIN,DAN,GER	EN
		LVT0875-011A	INST.BOOK	1	FRE,SPA,ITA	EN
	A 2	QAL0457-001	ANT.WIRE	1		
	A 3	QAL0014-001	AM LOOP ANT	1		
	A 4	BT-54013-4	W.CARD	1	E B EN EV	
	A 5	----------	BATTERY	2		
	A 6	VNA3000-204	REGISTER CARD	1		B
	A 7	E43486-340B	SAFETY SHEET	1		B
	A 8	RM-SRXDV3R	REMOCON	1		